iMac

User's Guide

Includes setup, usage, and troubleshooting information for your iMac computer

Apple Computer, Inc.

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Apple
1 Infinite Loop
Cupertino, CA 95014-2084
408-996-1010
www.apple.com

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Simultaneously published in the United States and Canada.

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Getting Started

1

Congratulations on purchasing your new iMac. This chapter contains instructions for setting up your computer.

Your iMac has been designed so that you can set it up quickly and start using it right away. If you have never used an iMac or are new to Macintosh computers, read this section for instructions on getting started.

Important: Read all of the installation instructions and safety information (see page 77) before you plug your computer into a wall socket.

If you are an experienced user, you may already know enough to get started. Make sure you look over the information in Chapter 2, "Getting to Know Your iMac," to find out about the new features of this iMac.

Before you set up your iMac, remove any protective film from the outside of your computer.

What's in the Box

Your iMac comes with an Apple Keyboard, a Mighty Mouse, and an AC power cord.

Keyboard

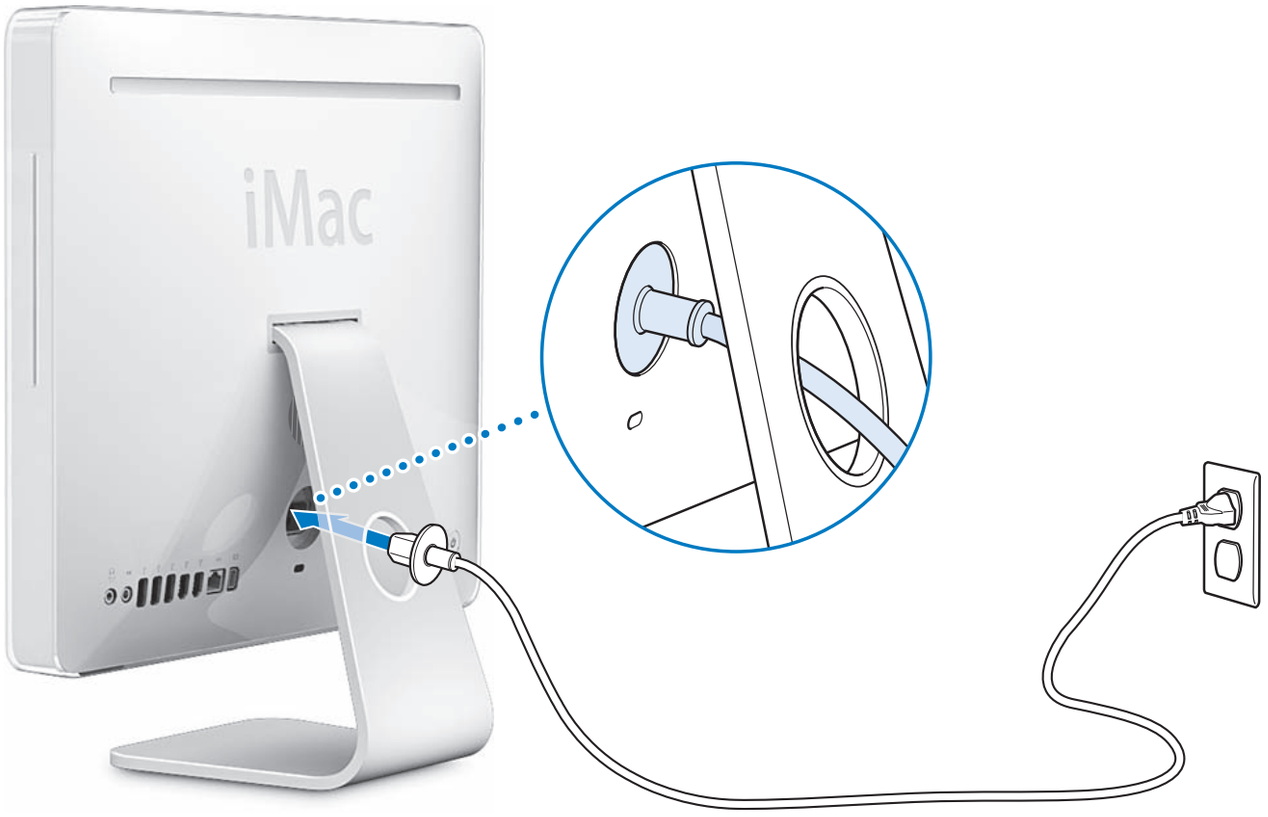
Mighty Mouse

AC power cord

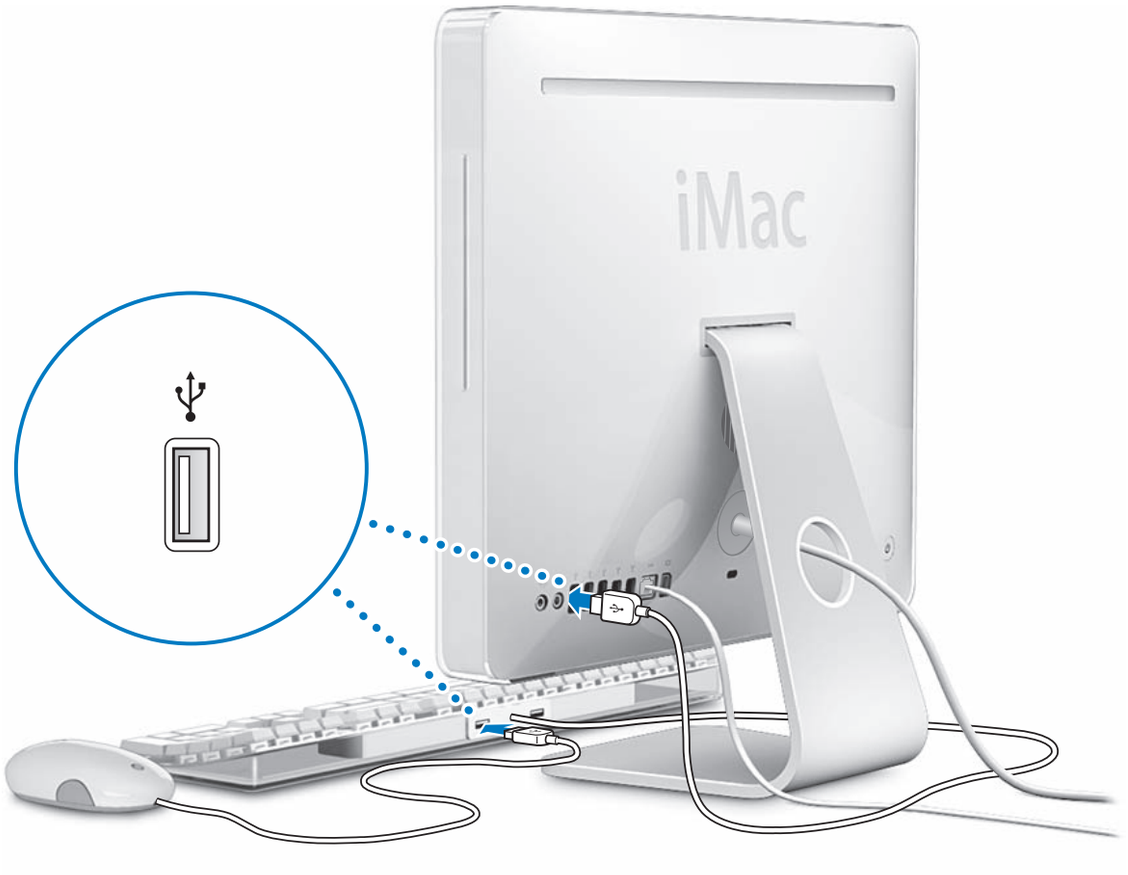
Setting up Your iMac

Follow the steps on the next couple of pages to set up your iMac.

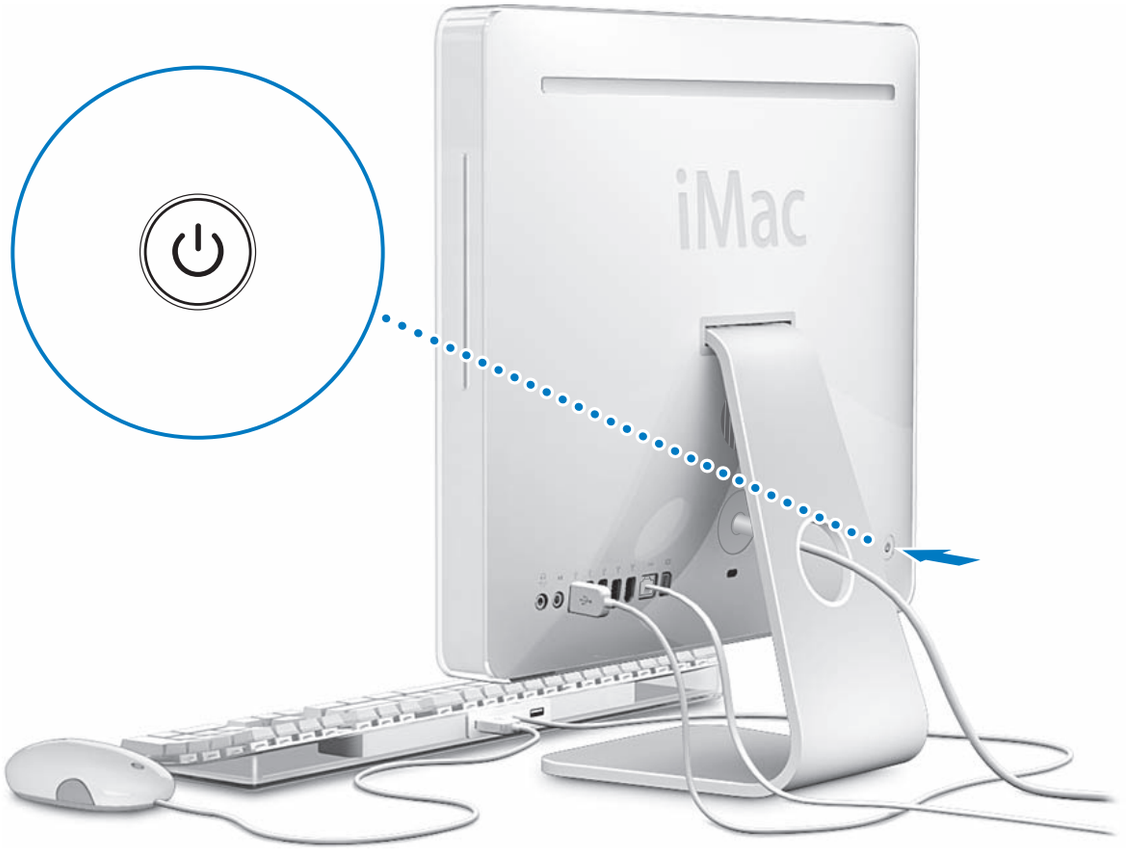
Step 1: Pass the power cord through the hole in the stand and plug it into the power port on the back of your iMac.



Step 3: Connect the keyboard and mouse cables.



Step 4: Press the power (⏻) button to turn on your iMac.



Step 5: Using Setup Assistant

The first time you turn on your iMac, Setup Assistant starts. Setup Assistant helps you enter your Internet and email information and set up a user account on your iMac. If you already have a Mac, Setup Assistant can help you automatically transfer files, applications, and other information from your previous Mac to your new iMac.

More Information

If you would like more information, see the following:

To learn about...	See...
Shutting down your iMac or putting it to sleep	"Putting Your iMac to Sleep or Shutting It Down" on page 14.
Using the different parts of your iMac and performing some common tasks	Chapter 2, "Getting to Know Your iMac," on page 15.
Using a specific feature of your iMac or connecting a digital device	Chapter 3, "Using Your iMac," on page 29.
Installing memory	Chapter 4, "Installing Memory," on page 57.
Troubleshooting your iMac if you have a problem	Chapter 5, "Troubleshooting," on page 65.

Putting Your iMac to Sleep or Shutting It Down

When you have finished working with your iMac, you can put your computer to sleep or shut it down.

Put Your iMac to Sleep

If you will be away from your iMac for less than a few days, put it to sleep. When your iMac is in sleep, its screen is dark and a small white light below the lower-right corner of the display pulses. You can quickly wake your iMac and bypass the startup process.

To put your iMac to sleep quickly, do one of the following:

- Choose Apple (🍎) > Sleep.
- Press the power (⏻) button on the back of the iMac.
- Choose Apple (🍎) > System Preferences, click Energy Saver, and set a sleep timer.
- If you have an Apple Remote, press and hold the Play/Pause (⏯) button for 3 seconds.

To wake your iMac, press any key on the keyboard or any button on the Apple Remote. When the iMac wakes from sleep, your applications, documents, and computer settings are exactly as you left them.

Shut Down Your iMac

If you won't be using your iMac for more than a few days, shut it down. Choose Apple (🍎) > Shut Down.

Warning: Shut down your iMac before moving it. Moving your iMac while the hard disk is spinning can damage the hard disk, causing loss of data or the inability to start up from the hard disk.

Getting to Know Your iMac

2

This chapter gives you some basic information you'll need to know about your iMac.

Read on for an overview of the different parts and features of your iMac.

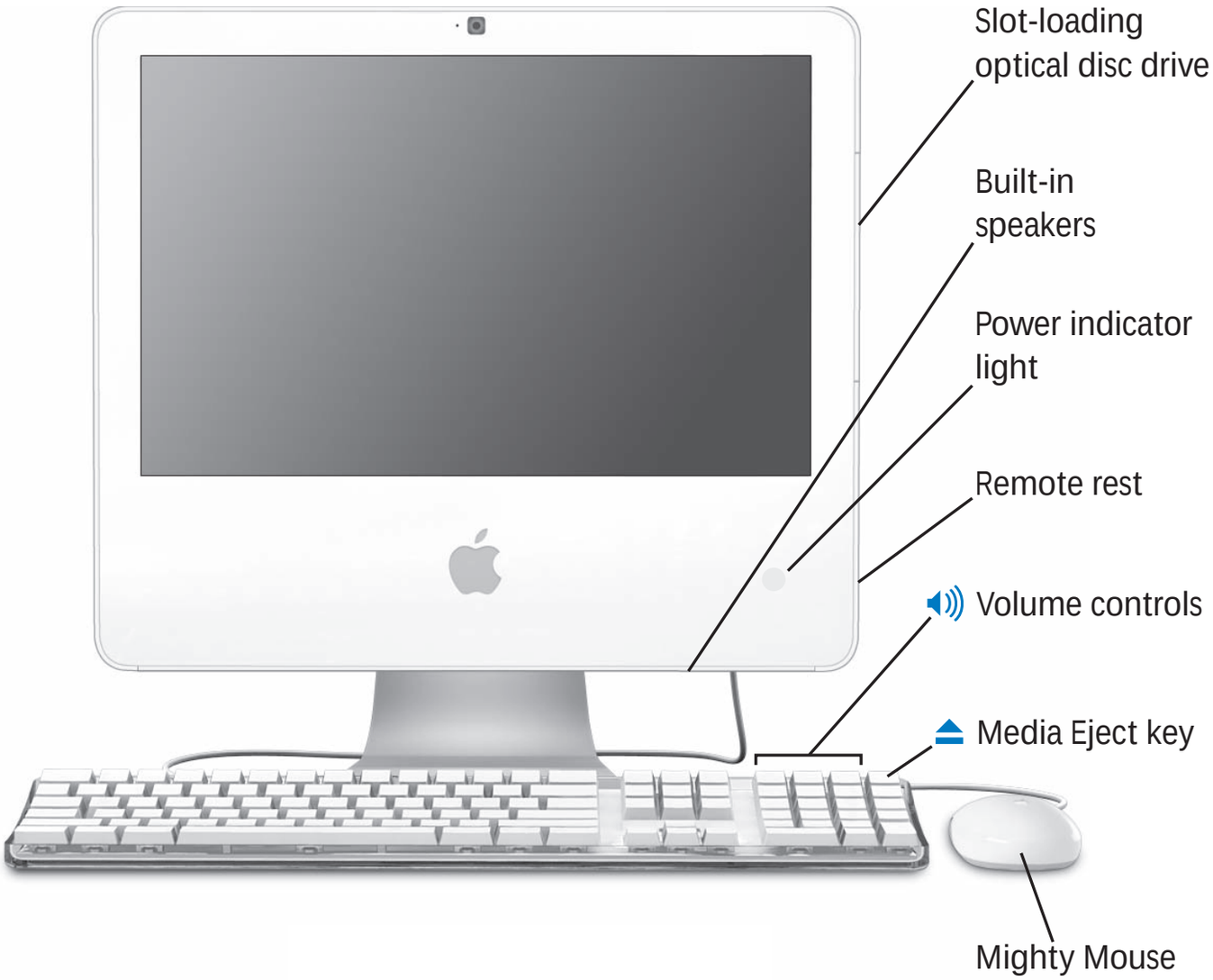
For the Latest Information

Because Apple frequently releases new versions and updates to its system software, images shown in this book may be slightly different from what you see on your screen.

The Apple website, at www.apple.com, links you to the latest Apple news, free downloads, and online catalogs of software and hardware for your iMac.

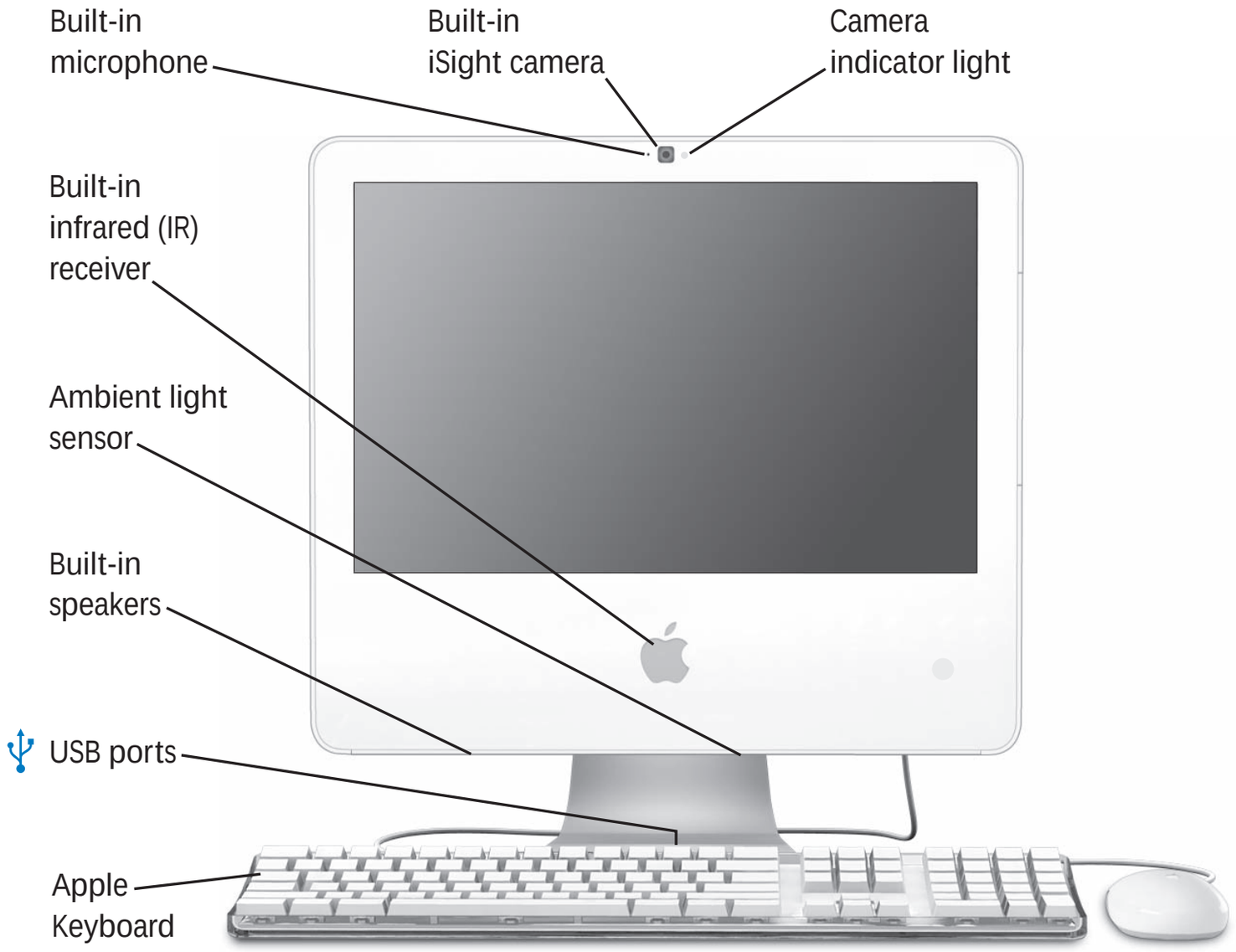
You can also find the manuals for many Apple products and technical support for all of Apple's products on the Apple Support website at www.apple.com/support.

Basic Features of Your iMac



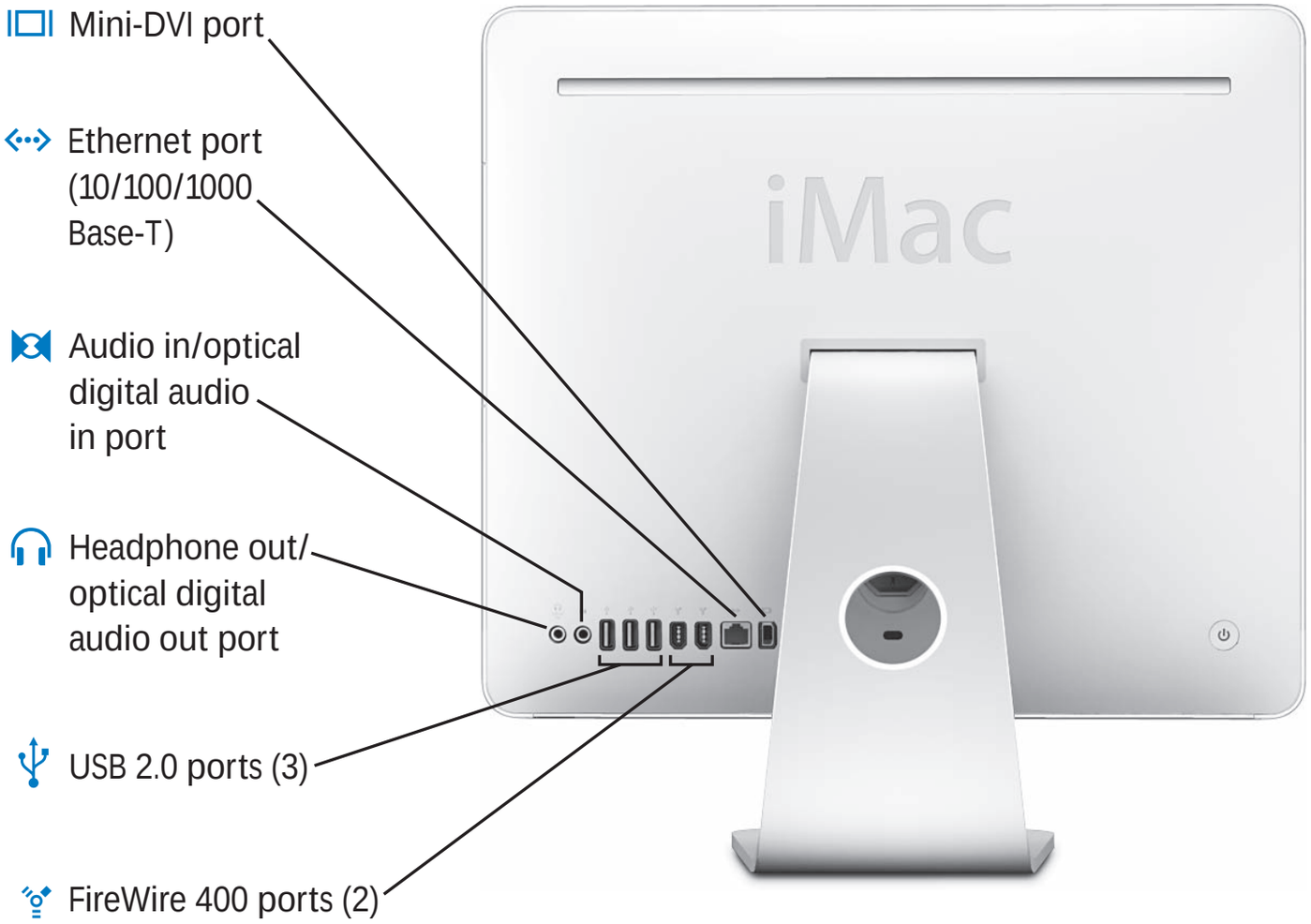
	Slot-loading optical disc drive Your iMac has a Combo drive, which can read CD-ROM discs, photo CDs, standard audio discs, DVD discs, and DVD movies. The Combo drive can also write music, documents, and other digital files to CD-R and CD-RW discs.
	Built-in speakers Listen to music, movies, games, and multimedia.
	Power indicator light A white light indicates your iMac is in sleep. When your iMac is on, this light is off.
	Remote rest If you have an Apple Remote, you can stow it on the right side of your iMac when you're not using it. The remote rest has an internal magnet.
	Apple Keyboard Adjust the volume or eject a disc using keyboard controls.
	Mighty Mouse Use the programmable, multibutton mouse with its innovative scroll ball to click, squeeze, and scroll through documents, web pages, or other content.

Additional Features of Your iMac



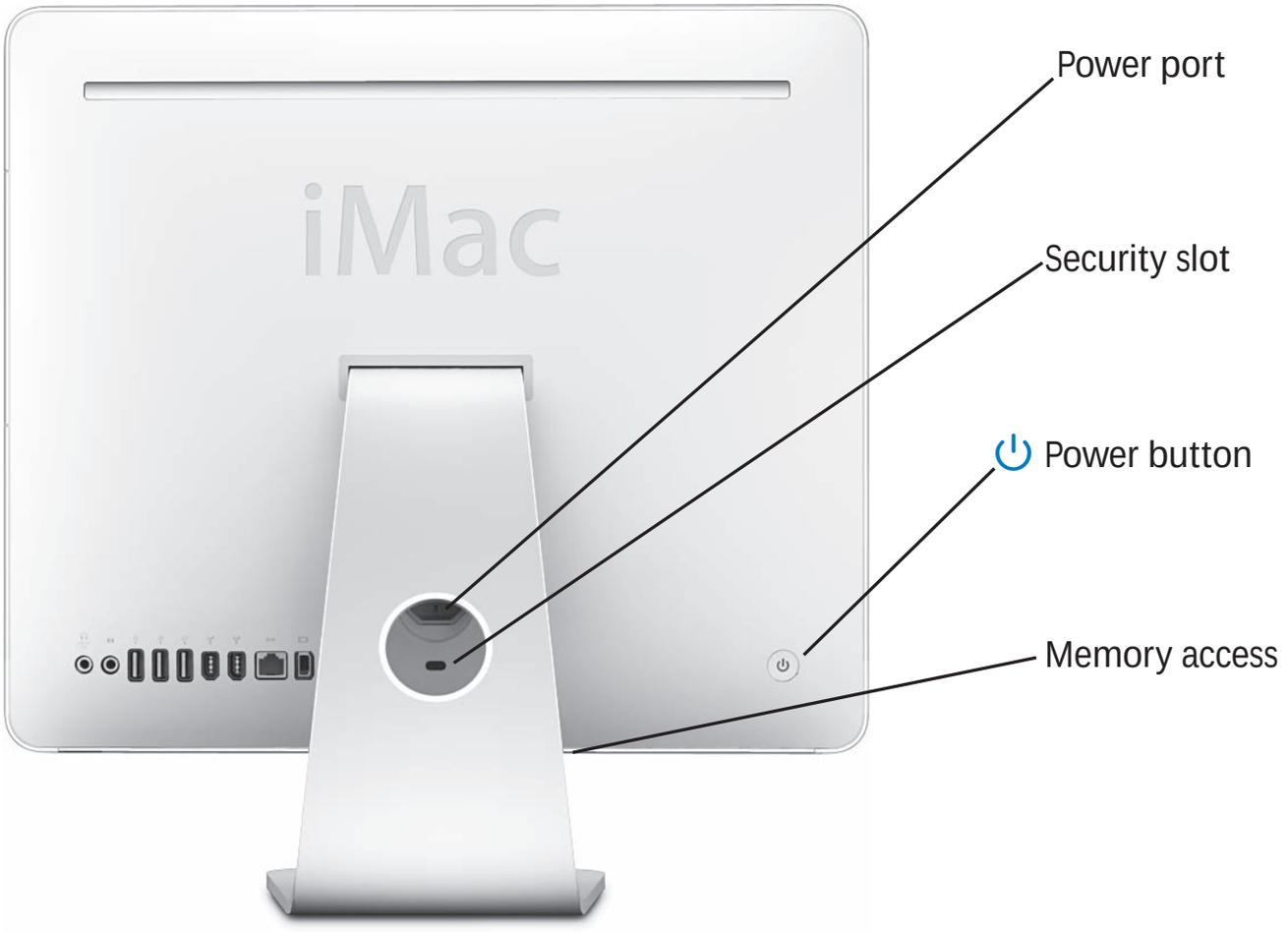
	Camera indicator light A green indicator light illuminates when the camera on your iMac is displaying video or when Photo Booth is open.
	Built-in iSight camera Videoconference with friends, family, and colleagues over broadband using the iChat AV application, snap pictures with the Photo Booth application, or capture video with iMovie HD.
	Built-in microphone Record sounds directly on your iMac or talk with friends live over broadband using the included iChat AV application.
	Built-in infrared (IR) receiver If you have an Apple Remote, use it with the built-in IR receiver to work seamlessly with your iMac.
	Ambient light sensor Detects a room's ambient light and automatically adjusts the brightness of the power indicator light, according to the light available, when the iMac is in sleep.
	Built-in stereo speakers Listen to music, movies, games, and multimedia.
	Two USB (Universal Serial Bus) 1.1 ports on the Apple Keyboard Connect low-power USB 11 devices, such as your mouse, to your iMac computer's keyboard. (There are also three high-speed USB 2.0 ports on the back of your iMac.)

Ports on Your iMac


Mini-DVI port
Ethernet port (10/100/1000 Base-T)
Audio in/optical digital audio in port
Headphone out/ optical digital audio out port
USB 2.0 ports (3)
FireWire 400 ports (2)
iMac

	Mini-DVI video out port Use a Mini-DVI to DVI Adapter to connect your iMac to an Apple flat-panel display or other display that has a DVI connector. Connect to an external monitor or projection device that uses a VGA connector with a Mini-DVI to VGA Adapter. You can also use a Mini-DVI to Video Adapter for composite and S-video support to connect to a TV, VCR, or other video device. Adapters are available at www.apple.com/store.
	Ethernet port (10/100/1000Base-T) Connect to a high-speed 10/100/1000Base-T Ethernet network, connect a DSL or cable modem, or connect to another computer and transfer files. The Ethernet port automatically detects other Ethernet devices.
	Audio in/optical digital audio in port Connect an external powered microphone or digital audio equipment.
	Headphone out/optical digital audio port Connect headphones, external powered speakers, or digital audio equipment.
	Three USB (Universal Serial Bus) 2.0 ports Connect a modem, iPod, printer, disk drive, digital camera, joystick, and more to your iMac. You can also connect USB 11 devices.
	Two FireWire 400 ports Connect high-speed external devices, such as a digital video camera or an external storage device. The two FireWire ports provide up to 8 watts of power between them.

Additional Components of Your iMac



~	**Power port** Connect your iMac computer's power cord.
	Security slot Attach a lock and cable to prevent theft (available at www.apple.com/store).
⏻	**Power button** Turn on your iMac or put it to sleep. Press and hold to reset during troubleshooting.
	Memory access Your iMac comes with at least 512 MB of 667 MHz, PC2-5300 Double Data Rate 2 (DDR2) SO-DIMMs. You can add more memory to your iMac, up to a total of 2 GB. For more information about installing memory, see "Replacing the Memory" on page 58.
	AirPort Extreme wireless technology (inside) Connect to a wireless network using the built-in AirPort Extreme technology in your iMac.

Customizing Your Desktop and Setting Your Preferences

You can quickly make your desktop look the way you want using System Preferences. Choose Apple (🍎) > System Preferences from the menu bar.

As you get to know your iMac, explore the system preferences. System Preferences is your command center for most settings on your iMac. For more information, choose Help > Mac Help and search for "System Preferences" or for the name of a specific preference.

Connecting a Printer

You can connect most printers using a USB cable; others require a network connection, such as Ethernet. If you have an AirPort Express or AirPort Extreme Base Station, you can connect a USB printer to the base station (instead of connecting it to your computer) and print wirelessly. Follow the instructions that came with your printer to install any required software and connect the printer. The drivers for most printers are built into Mac OS X.

After you connect a printer, your computer usually detects it automatically and adds it to the list of available printers. You may need to know the network name or address of a printer connected to a network before you can print to it.

To set up a printer:

1. Open System Preferences and click the Print & Fax icon.
2. Click Printing and then click the Add (+) button to add a printer.
3. Select the printer you want to use, and then click Add.
4. Use the Add (+) button and the Remove (–) button to choose the printers that appear in the printer list.

Monitoring Printing

After you send a document to a printer, you can monitor printing, including halting your print job or putting it temporarily on hold. To monitor printing, click the printer icon in the Dock to open the printer window. You can now see the print jobs in the print queue and work with them.

For more information, open Mac Help and search for "printing."

Keeping Your Software Up to Date

You can connect to the Internet and automatically download and install the latest free software versions, drivers, and other enhancements from Apple.

When you are connected to the Internet, Software Update checks Apple's Internet servers to see if any updates are available for your computer. Your iMac is set to automatically check once a week but you can set it to check daily or monthly. You can also check for updates manually.

To check for updated software:

1. Open System Preferences.
2. Click the Software Update icon and follow the directions on the screen.

Software Update
Show All
Update Software
Installed Updates
Software Update checks for new and updated versions of your software based on information about your computer and current software.
Check for updates:
Weekly
Download important updates in the background
You will be notified when the updates are ready to be installed.
Check Now
Last check: No new software updates were available.
1/2/06 11:56 AM

- For more information, search for "Software Update" in Mac Help.
- For the latest information about Mac OS X, go to the Mac OS X website at www.apple.com/macosx.

Transferring Files to Another Computer

There are several ways to transfer files or documents to or from your iMac.

- You can transfer files via the Internet using .Mac or another Internet account. Go to www.mac.com for more information.
- If your iMac is connected to an Ethernet network, you can transfer files to another computer on the network. To access another computer or server, open a Finder window and click Network. Or if you know the name or network address of the computer, choose Go > Connect to Server from the Finder menu bar.
- You can create a small Ethernet network by connecting an Ethernet cable from your iMac to another computer's Ethernet (⇠⇢) port. For more information, open Mac Help and search for "connecting two computers."
- You can also connect to another Mac using a FireWire cable. Your iMac appears as a disk drive on the other computer and you can transfer files. For information about using FireWire to transfer files, open Mac Help and search for "transferring files with FireWire."
- You can connect to an AirPort wireless network to transfer files. For more information, see "Understanding AirPort Extreme Wireless Networking" on page 41.

For more information about transferring files and documents, open Mac Help and search for "transferring files" or for the type of connection you need.

Using Your iMac

3

This chapter provides instructions for using the many built-in features and capabilities of your iMac, so you can get the most out of your computer.

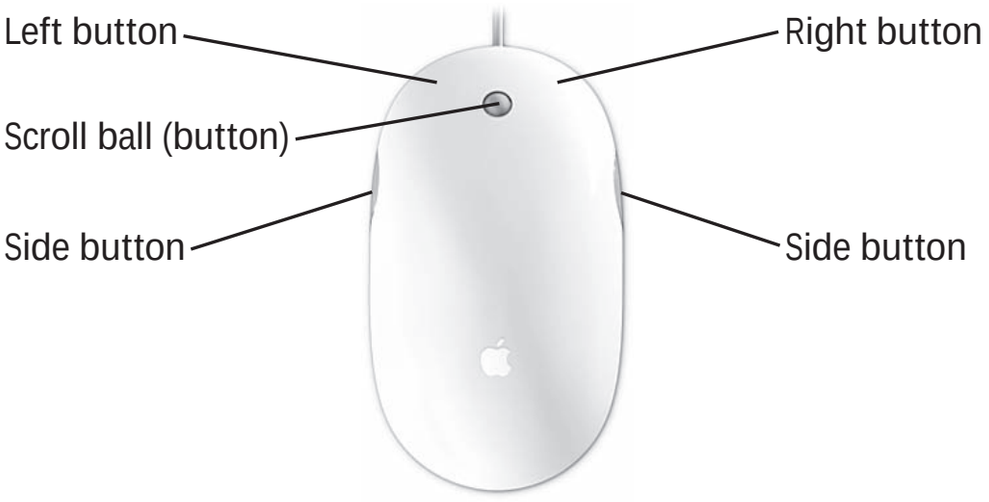
Here are some of the features you can explore with your new iMac:

- Click, roll, squeeze, and scroll with the Mighty Mouse
- If you have an Apple Remote, use it with Front Row to enjoy music, photos, and videos from across the room
- Snap pictures with Photo Booth and the built-in iSight camera
- Hold a video chat with iChat AV and the built-in iSight camera
- Create a video with iMovie HD and the built-in iSight camera
- Use the built-in AirPort Extreme technology for wireless networking
- Connect printers and other peripherals to the USB 2.0 (⇳) ports
- Import video from a video camera or add external hard disks to the FireWire (⚡) ports
- Mirror or extend your desktop to a TV, display, or projector using the mini-DVI video out (⧈) port
- Burn CDs with the Combo drive

To learn what you can do with your iMac, start with the information in this chapter. More information can be found in Mac Help and on the iMac Service & Support website at www.apple.com/support/imac.

Using Mighty Mouse

Your iMac comes with Mighty Mouse, which has touch-sensitive technology under the top shell to detect where you're clicking. Mighty Mouse also has force-sensing buttons on the sides, which let you squeeze the mouse between your thumb and finger to activate Dashboard, Exposé, or other customizable features. You can configure the right or left button as the primary button and you can use the scroll ball to move anywhere inside a document, without lifting a finger.

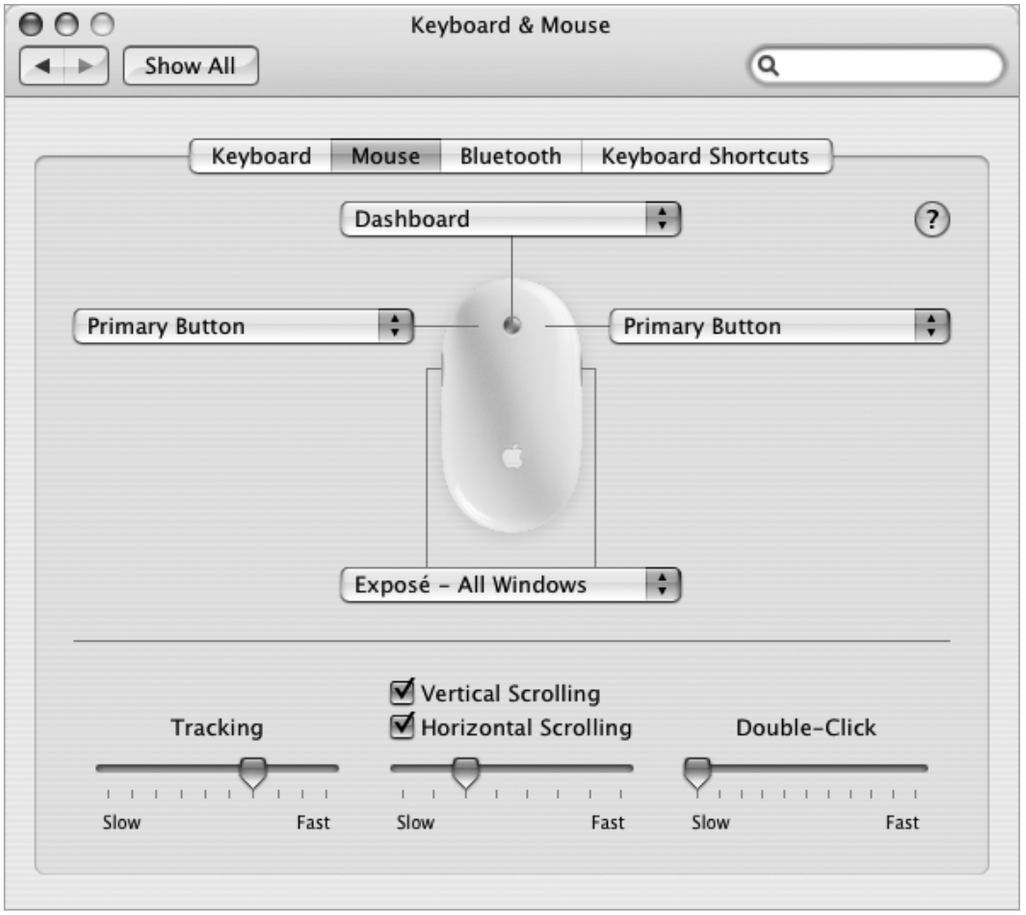


Configuring Mighty Mouse

Use the Keyboard & Mouse preferences to set up Mighty Mouse as a one-button mouse or configure it as a multibutton mouse. You'll see pop-up menus for the buttons, plus controls for tracking, scrolling, and double-clicking. You can choose your primary and secondary button designation, reassign which applications you want to open with Mighty Mouse, and customize your scrolling capability.

To open Keyboard & Mouse preferences:

1. Choose Apple (🍎) > System Preferences.
2. Click Keyboard & Mouse, and then click Mouse.

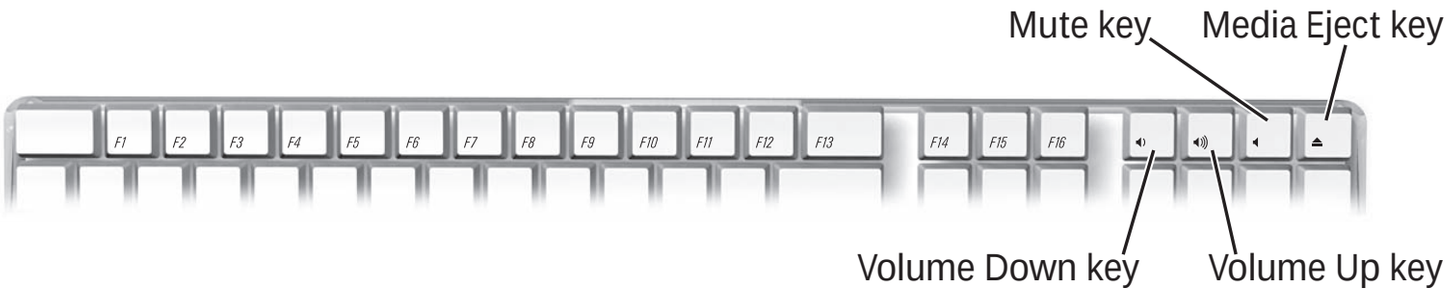


More Information About Mighty Mouse

More information about configuring and using your Mighty Mouse is available in Mac Help. Choose Help > Mac Help and search for "Mighty Mouse."

Keyboard Controls

Use your keyboard to perform actions such as adjusting the volume or ejecting a disc.



Press the F15 key on your keyboard to increase the brightness of the display; press F14 to decrease brightness. Use Exposé to manage the windows on your screen. To see all your open windows at once, press F9. To see all the windows open in the current application, press F10. To hide the open windows and see the desktop, press F11.

You can use your keyboard to control Front Row (see page 34). The following keys correspond to the buttons on the Apple Remote:

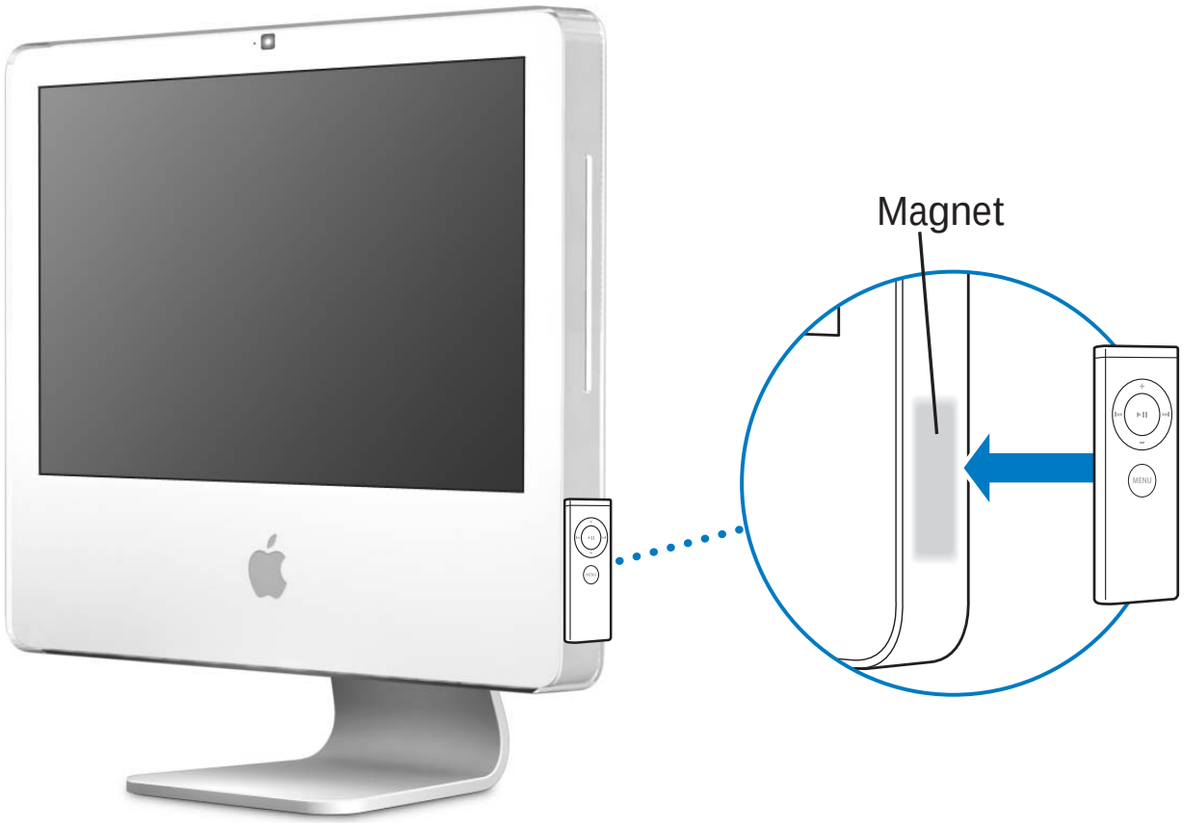
Keyboard equivalent	Apple Remote button
Command (⌘) - Esc	Enter Menu (MENU)
Esc	Exit Menu (MENU)
Space or Return	Select/Play/Pause (▶II)
Up arrow (↑)	Volume Up/menu up (+)
Down arrow (↓)	Volume Down/menu down (–)
Right arrow (→)	Next/Fast forward (▶▶I)
Left arrow (←)	Previous/Rewind (I◀◀)

To leave Front Row and return to the Finder, press any alphabetic key on the keyboard.

To find keyboard shortcuts for other procedures and applications, choose Help > Mac Help from the menu bar and search for "keyboard shortcuts." For more information about the Apple Remote, see "Using the Apple Remote and Front Row" next.

Using the Apple Remote and Front Row

If you have an Apple Remote, it works with the Front Row application and the built-in infrared (IR) receiver. The IR receiver is located behind the Apple (□) logo on the front of your iMac.



When you are not using the remote, conveniently stow it using the Apple Remote rest, located on the right side of your iMac as shown in the illustration.

Warning: The iMac contains a small magnet to rest your Apple Remote when it's not in use. To preserve the data on an external hard disk, memory card, iPod, or other magnetic media, avoid bringing them close to the magnet.

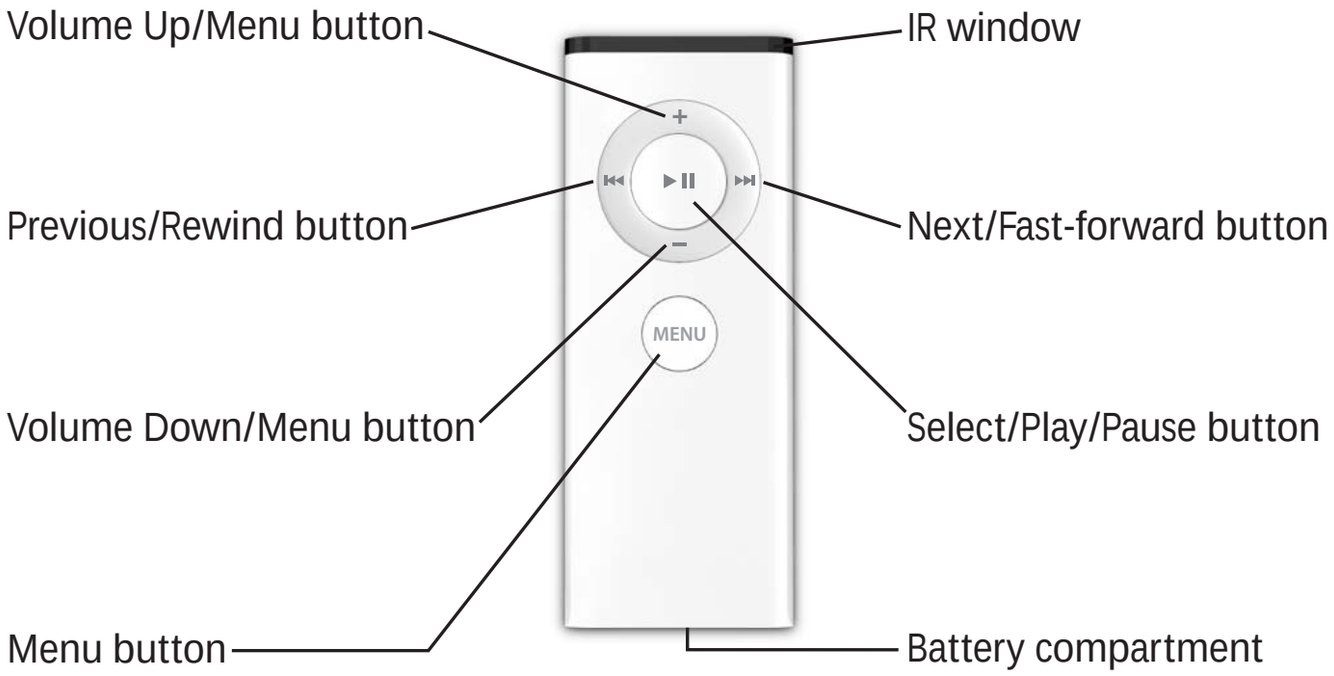
The Apple Remote opens Front Row so you can play music from your iTunes music library, watch photo slideshows and QuickTime movie trailers, play a DVD with DVD Player, and more—all from across the room.

Your Apple Remote can:

- Open Front Row.
- Navigate through the Music, Photos, Videos, and DVD menus in Front Row.
- Navigate in iTunes, iPhoto, and DVD Player.
- Sleep or wake your iMac.

To use your Apple Remote:

- Press the Menu (MENU) button to open Front Row.
- Use the Menu (MENU) button to return to the previous menu when you're navigating through Front Row.
- Press the Volume Up (+) and Volume Down (–) buttons to move through the Front Row menu options or adjust the volume.
- Use the Select/Play/Pause (▶II) button to select an option from the Front Row menu.
- Press the Select/Play/Pause (▶II) button to play or pause a song, slideshow, or movie.
- Press the Next/Fast-forward (⏭) or Previous/Rewind (⏮) buttons to skip to the next or previous song in your iTunes library or the next or previous chapter in a DVD movie.
- Hold down the Next/Fast-forward (⏭) or Previous/Rewind (⏮) buttons to fast-forward or rewind within a song or a movie.



Pairing Your Apple Remote

If you have multiple computers or other devices with built-in IR receivers in a room (for example, more than one iMac in a home office or lab), you can "pair" your Apple Remote with a specific computer or device. Pairing sets up the receiving computer or device so it's controlled by only one remote.

To pair your Apple Remote with your iMac:

1. Move very close to your iMac (within 3 to 4 inches).
2. Point the Apple Remote at the Apple logo on the front of your iMac.
3. Press and hold the Next/Fast-forward and Menu buttons simultaneously for 5 seconds.

When you've successfully paired your Apple Remote with your iMac, a chainlink ( ) symbol appears onscreen.

To delete a pairing between the Apple Remote and your iMac:

1 Choose Apple (🍎) > System Preferences from the menu bar.

2 Click Security and then click Unpair.

Turning Off IR Reception

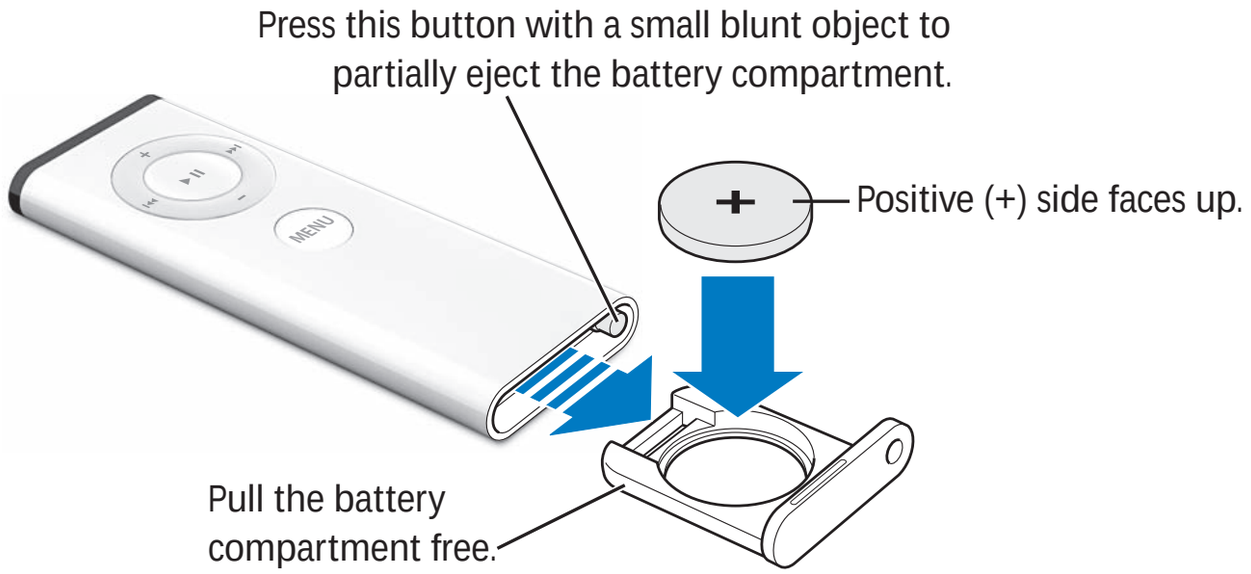
You can use Security preferences to turn IR reception on or off.

To turn off IR reception:

- Choose Apple (🍎) > System Preferences from the menu bar and click Security.
- Select the "Disable remote control infrared receiver" checkbox.

Replacing the Apple Remote Battery

The Apple Remote includes a CR 2032 battery, which you can replace when needed.


Press this button with a small blunt object to partially eject the battery compartment.
Positive (+) side faces up.
Pull the battery compartment free.
MENU

To replace the battery:

1 Open the battery compartment by pressing the button with a small object, as described in the illustration above.

2 Pull the battery compartment out and remove the battery.

3 Insert the replacement battery with the positive (+) side facing up.

4 Close the battery compartment.

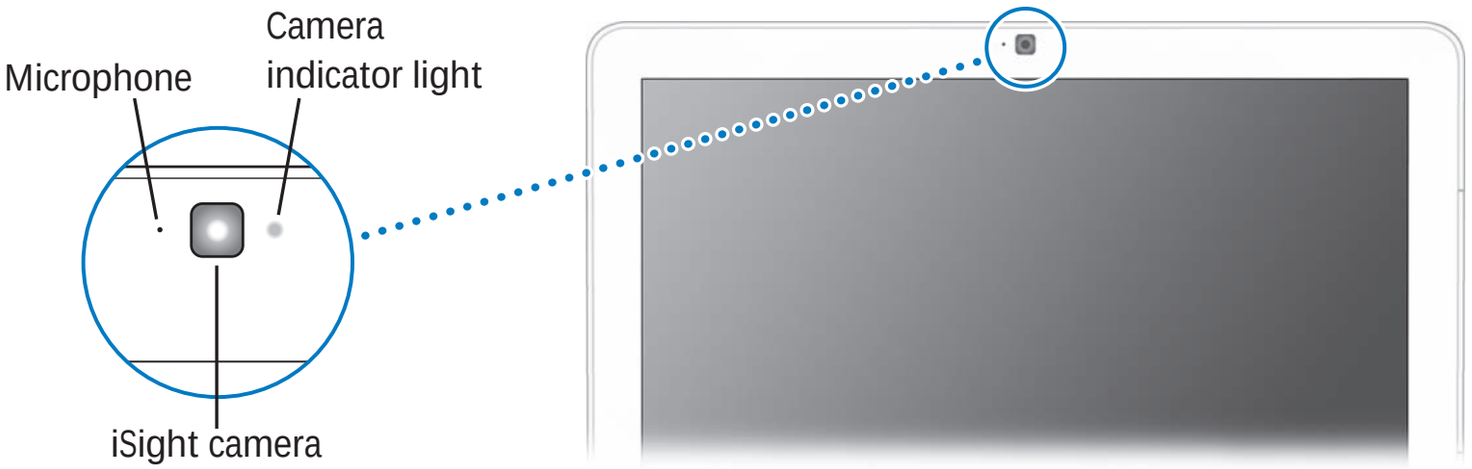
Warning: Install the battery correctly to avoid risk of an explosion. Align the battery's positive pole in the holder and use only the same type of battery as the original.

More Information About the Apple Remote

More information about your Apple Remote is available in Mac Help. Choose Help > Mac Help and search for "remote."

Using the Built-in iSight Camera

Your iMac has a built-in iSight camera that you can use to take pictures with Photo Booth, create movies with iMovie HD, or video chat with your friends and family over the Internet using iChat AV.



Taking Pictures with Photo Booth

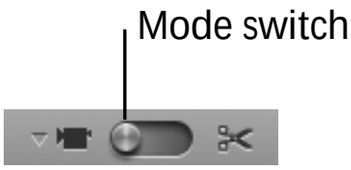
Use Photo Booth to take pictures and add fun visual effects such as sepia, stretch, pop art, glow, colored pencil, and many more.

Using Your iSight Camera with iMovie HD

You can capture live video from your built-in iSight camera directly into iMovie HD.

To capture live video:

1. Open iMovie HD by clicking its icon in the Dock (or choose Applications > iMovie HD).
2. Click the mode switch to set iMovie HD to built-in camera mode.



3. Click the camera icon to the left of the mode switch and choose Built-in iSight from the pop-up menu.
4. Click the "Record With iSight" button in the iMovie monitor to begin recording.
   The video you see in the iMovie monitor is recorded as a clip in the iMovie Clips pane.
5. Click the "Record With iSight" button again to stop recording.
   You can record video as long as your iMac has enough disk space to hold it.

More information about iMovie HD is available in Mac Help. Choose Help > Mac Help, then choose Library > iMovie HD Help from the menu bar.

Videoconferencing with iChat AV

Open iChat AV and click on the video icon to turn on the iSight camera. The green indicator light tells you iSight is on. Click the video icon of a buddy and you're ready to videoconference with other iChat AV users in real-time full-motion video. Your iMac also has a built-in microphone, so you have both voice and video for your iChat AV videoconference.

To use iSight to videoconference, you must have the following:

- A .Mac, America Online (AOL), or AOL Instant Messenger (AIM) account (required for iChat AV)
- A broadband Internet connection using a DSL or cable modem, or a local area network (LAN). You can't use a dial-up Internet connection.
- Someone to videoconference with (for example, you can videoconference with other iChat AV, AOL, or AIM users)

To start a videoconference:

1. Open iChat AV.
2. Click the Camera button next to a buddy in your buddy list.

The green indicator light lets you know you are displaying video. Clicking the camera button sends an invitation to your buddy to accept your video request and lets you preview how you look on camera. When a buddy accepts your invitation, you can see the buddy on your screen and you appear on your buddy's screen.

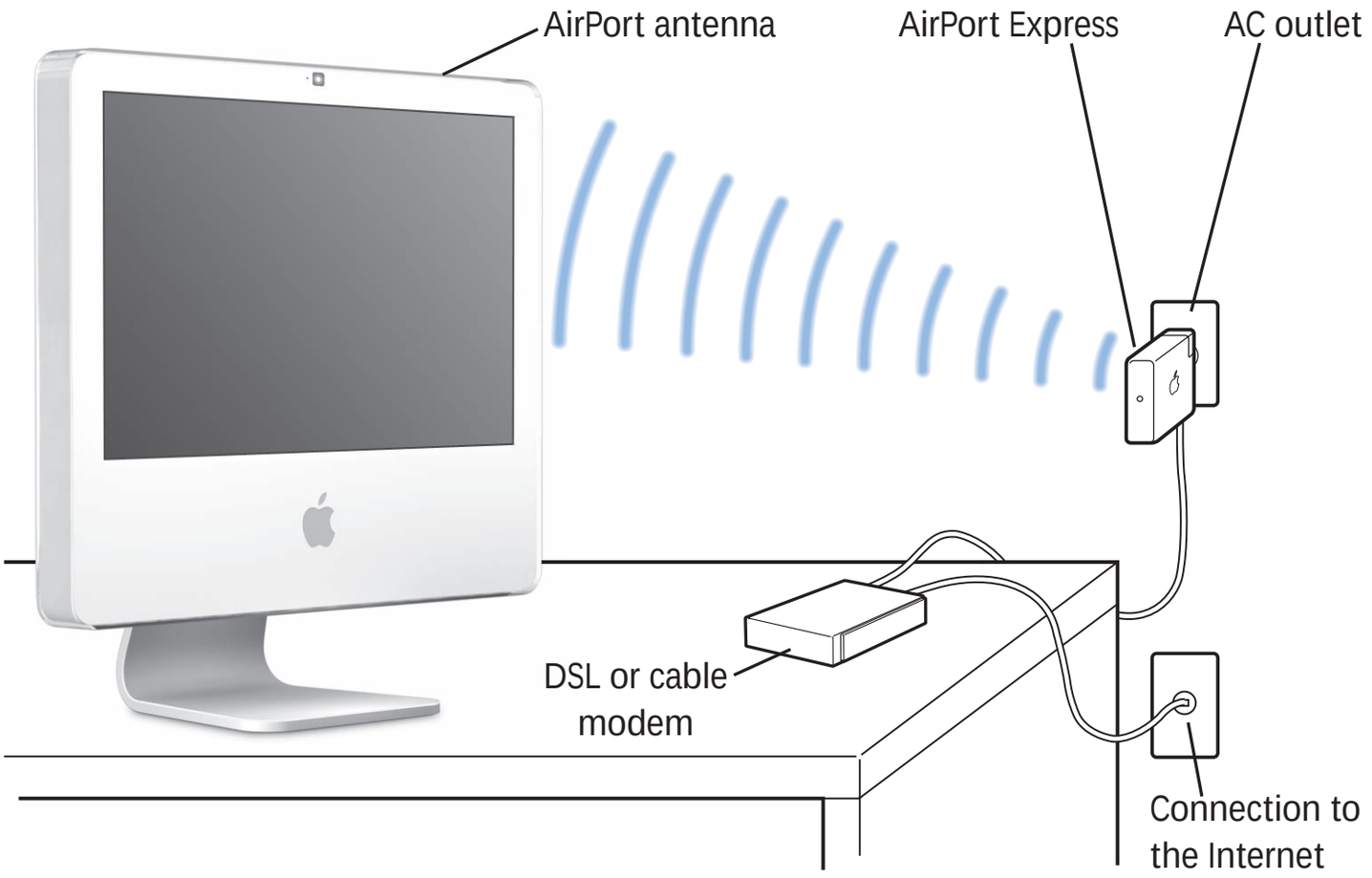
Turning Off the iSight Camera

To turn off iSight, close the active iChat window. The green indicator light turns off showing that the camera is off and video has stopped.

More information about iChat AV is available in Mac Help. Choose Help > Mac Help, then choose Library > iChat AV Help.

Understanding AirPort Extreme Wireless Networking

Your iMac has built-in AirPort Extreme technology, which offers an easy and affordable way to provide wireless Internet access. AirPort uses wireless local area network (LAN) technology for wireless communication between multiple computers. You can access the Internet, transfer files, play multiplayer games, and more.



How AirPort Provides Wireless Internet Access

With AirPort Extreme technology, your iMac makes a wireless connection to an AirPort Express or AirPort Extreme Base Station, which is connected to the Internet via a telephone line or a DSL modem or cable modem.

Note: You need an AirPort Express or AirPort Extreme Base Station and Internet access (fees may apply). Some Internet service providers aren't compatible with AirPort. Range may vary with site conditions.

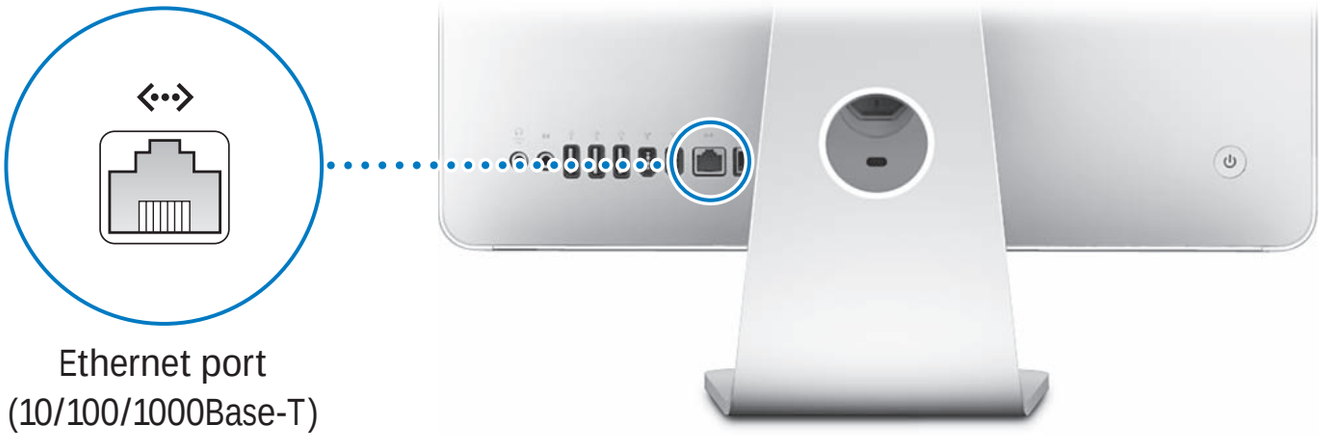
More Information About AirPort

To purchase an AirPort Express or AirPort Extreme Base Station, visit an Apple Authorized Reseller, an Apple Store retail location, or the online Apple Store at www.apple.com/store.

More information about AirPort is available in AirPort Help. Choose Help > Mac Help, and then choose Library > AirPort Help. You can also find information on the AirPort Support website at www.apple.com/support/airport.

Connecting to an Ethernet Network

Your iMac comes with built-in 10/100/1000 megabit per second (Mbps) Base-T (twisted-pair) Ethernet networking capability for connecting to a network or to a cable modem or DSL modem.



Ethernet port
(10/100/1000Base-T)

Connecting to a network gives you access to other computers on the network. You may be able to store and retrieve information, use network printers, modems, and email, or connect to the Internet. You can also share files between two computers or set up a small network. Use a 2-pair shielded category 5 (shielded Cat 5) Ethernet cable to connect to a 10Base-T, 100Base-T, or 1000Base-T Ethernet network. The Ethernet (⇠⇢) port on your iMac automatically detects other Ethernet devices.

More Information About Using Ethernet

More information is available in Mac Help. Choose Help > Mac Help and search for "Ethernet" or "network." For information about networking products you can use with your iMac, see the Macintosh Products Guide at www.apple.com/guide.

Using Audio Devices

Your iMac comes with built-in stereo speakers, a headphone out/optical digital audio out (🎧) port, and an audio in/optical digital audio in (⋈) port.

Headphone Out/Optical Digital Audio Out Port

You can connect external powered speakers, headphones, 5.1 surround systems, and other sound output devices to the headphone out/optical digital audio out (🎧) port. The headphone port is also a S/PDIF stereo 3.5 mini-phono jack. When you plug a pair of headphones or another device into the mini-phono jack, sound comes through the device instead of the iMac speakers. You can also play music through your home stereo with iTunes and an AirPort Express Base Station.

Headphone out/optical digital audio out port

Audio In/Optical Digital Audio In Port

You can connect external microphones or other audio equipment to the audio in/optical digital audio in (⋈) port. The audio in port does not provide power to a connected device, so you must use self-powered devices.

The audio in port is also a S/PDIF stereo 3.5 mini-phono jack. You can use a Toslink cable and a Toslink jack-to-miniplug adapter to connect a Digital Audio Tape (DAT) deck or digital instruments to input and mix your own music.

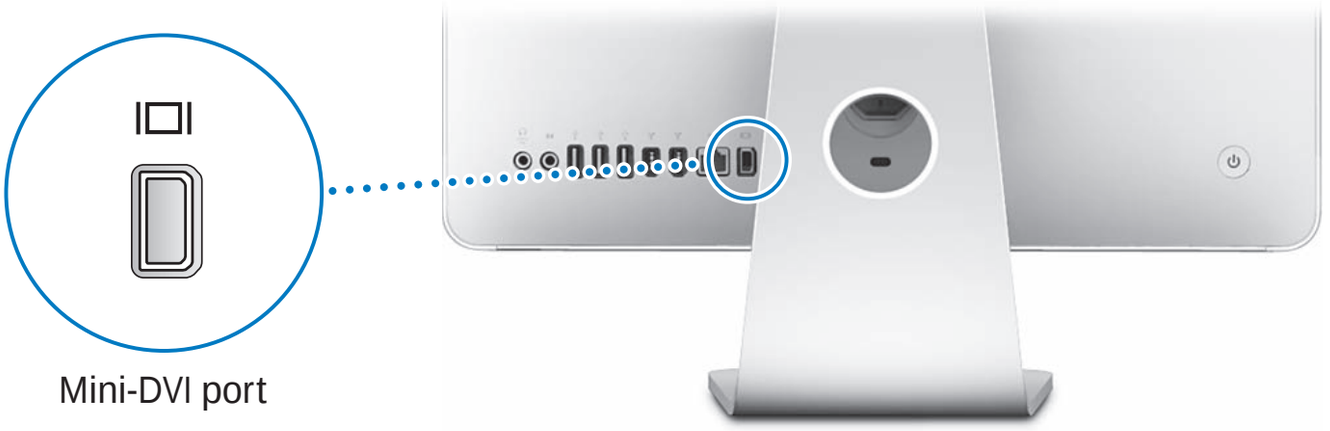
Audio in/optical digital audio in port

More Information About Using Audio

More information about using audio is available in Mac Help. Choose Help > Mac Help and search for "audio" or "music." For information about audio and music products you can use with your iMac, check the Macintosh Products Guide at www.apple.com/guide.

Connecting External Displays, Televisions, and Video Devices

Your iMac has a mini-DVI video out (⧈) port that you can use with an adapter to connect an external DVI display, an external VGA display or projector, or a TV, video projector, or VCR. Refer to the following chart to find the right adapter for your needs.



When an external display or TV is connected, you can either have the same image appear on both the iMac display and the external display (known as *video mirroring*) or use the external display to extend the size of the Mac OS X desktop (known as *extended desktop mode*).

Connecting an External Display, Projector, TV, or VCR

Use the appropriate adapter to connect an external DVI or VGA display or a projector to your iMac. Your iMac automatically detects the external display.

To connect a	Use the
DVI display	Apple Mini-DVI to DVI Adapter
VGA display or projector	Apple Mini-DVI to VGA Display Adapter
TV, video projector, or VCR	Apple Mini-DVI to Video Adapter

To purchase an adapter, visit an Apple Authorized Reseller, an Apple Store retail location, or the online Apple Store at www.apple.com/store.

To connect an external display or projector:

1. Turn on the external display or projector.
2. Connect the adapter to the video port on the external display or projector.
3. Connect the mini-DVI end of the adapter to the mini-DVI video out (⊏) port on your iMac.

   Important: To ensure that your iMac automatically detects the external display or projector, plug the adapter into the external display or projector first.
4. Use the Displays Preferences to adjust the resolution on the display or projector.

Use the Apple Video Adapter to connect a TV, VCR, or other types of video devices with composite or S-video ports to your iMac. When you connect a TV, the image appears on both the iMac and the TV.

To connect a TV or VCR to your iMac:

1. Turn on the external device.
2. Connect the adapter to the composite video port or S-video port on the TV or VCR.
3. Connect the mini-DVI end of the adapter to the mini-DVI video out (⊏) port on your iMac.
4. Use the Displays Preferences to adjust how the images are displayed on the device.

More Information About Using an External Display or TV

More information about using and configuring an external display is available in Mac Help. Choose Help > Mac Help and search for "display."

Using High-Speed Universal Serial Bus (USB) 2.0

Your iMac comes with five USB (⑂) ports (three high-speed USB 2.0 ports on the back of the iMac and two USB 1.1 ports on the keyboard), which you can use to connect many types of external devices, including a printer, scanner, iPod, digital camera, game pad, joystick, keyboard, or floppy disk drive. USB makes it easy to connect a peripheral—and once you connect it, it's ready to use.

USB ports

Using USB Devices

To use a USB device with your iMac, simply connect the device to the USB (⑂) port on your iMac. Your iMac automatically accesses the necessary software whenever you connect a new device.

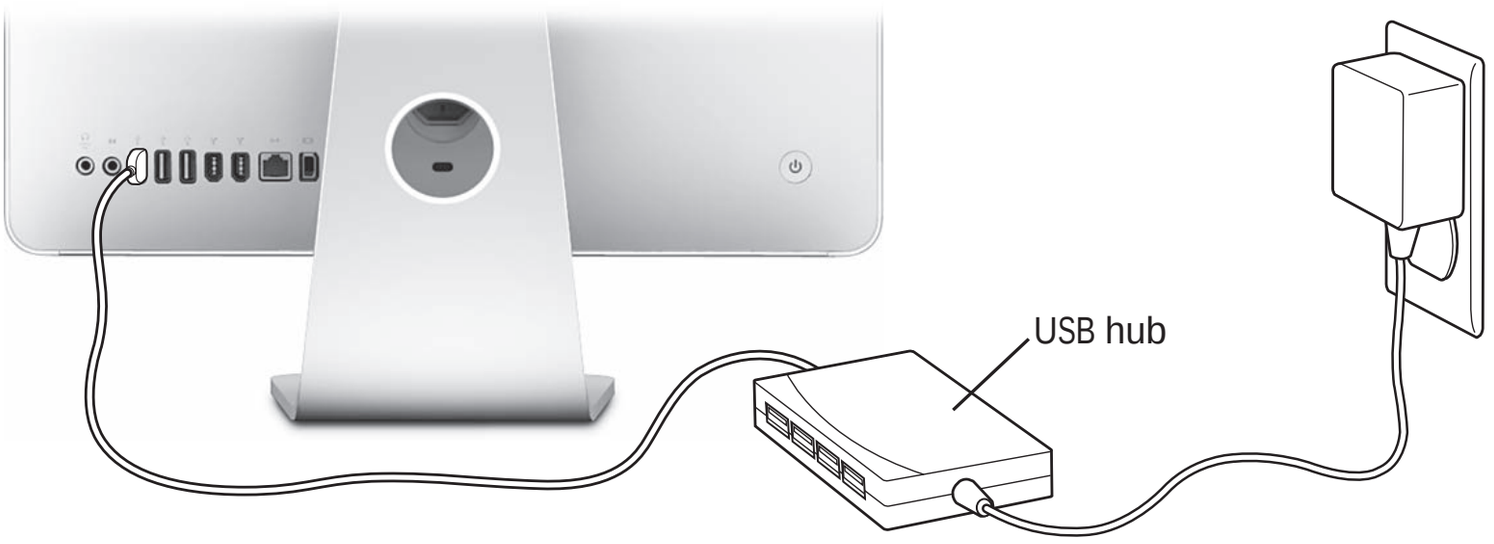
You can connect USB 1.1 devices and high-speed USB 2.0 devices to the USB 2.0 (⑂) ports on the back of your iMac. USB 1.1 devices won't take advantage of the USB 2.0 higher transfer rate.

You can connect USB 2.0 devices to the USB 1.1 (⑂) ports on your keyboard, but they may operate at slower speeds.

Note: Apple has included software to work with many USB devices. When you connect a USB device, if your iMac cannot find the correct software, install the software that came with the device or check the manufacturer's website for the latest software.

Using Multiple USB Devices at the Same Time

If all of your USB ports are being used and you want to connect more USB devices, you can purchase a USB hub. The USB hub connects to an open USB (⇳) port on your iMac and provides additional USB ports (usually four or seven). Most USB hubs also have a power adapter that should be plugged into an outlet.



More Information About USB

More information about USB is available in Mac Help. Choose Help > Mac Help and search for "USB."

For information about USB devices available for your iMac, check the Macintosh Products Guide at www.apple.com/guide.

Connecting FireWire Devices

Your iMac has two FireWire 400 (⚡) ports. FireWire lets you easily connect and disconnect external high-speed devices—such as digital video cameras, printers, scanners, and hard disks. You can connect and disconnect FireWire devices without restarting your iMac.

FireWire ports

These are some of the things you can do with FireWire:

- Connect a digital video camera and capture, transfer, and edit high-quality video directly on your iMac using video-editing software such as iMovie (included with your iMac), Final Cut Express, or Final Cut Pro.
- Connect an external FireWire hard disk and use it to back up, store, or transfer files. A FireWire hard disk icon appears on your desktop after you connect the drive to your iMac.
- Start up from an external FireWire hard disk. Connect an external FireWire disk with a valid operating system installed on it, open the Startup Disk pane of System Preferences, and click the FireWire disk icon (⚡). Then restart your iMac.

Using FireWire Devices

To use a FireWire device with your iMac, simply connect the device to the FireWire (⚡) port. Apple has already included software to work with many FireWire devices. When you connect a FireWire device, if your iMac cannot find the correct software, you can install the software that came with the device or check the device manufacturer's website for the latest software.

Note: The FireWire (⚡) port is designed to provide power for FireWire devices (up to a total of 8 watts). You can connect multiple devices to each other and connect the "daisy chain" of devices to the FireWire (⚡) port on your iMac. In most cases, at most two devices should get power from the iMac. If you connect more than two devices, the rest of the devices in the daisy chain should be powered by separate power adapters. Connecting more than two FireWire devices that get power from the iMac may cause problems. If a problem occurs, shut down your iMac, disconnect the FireWire devices, and restart your iMac.

More Information About FireWire

More information about FireWire is available in Mac Help. Choose Help > Mac Help and search for "FireWire."

Using Your Optical Drive

The optical drive in your iMac is a Combo drive. Use the Combo drive to install software from CDs, play music from audio CDs, and play DVD movies. You can burn music CDs that can play in most CD players, and save documents or other digital files to blank CD-R and CD-RW discs using the Finder.

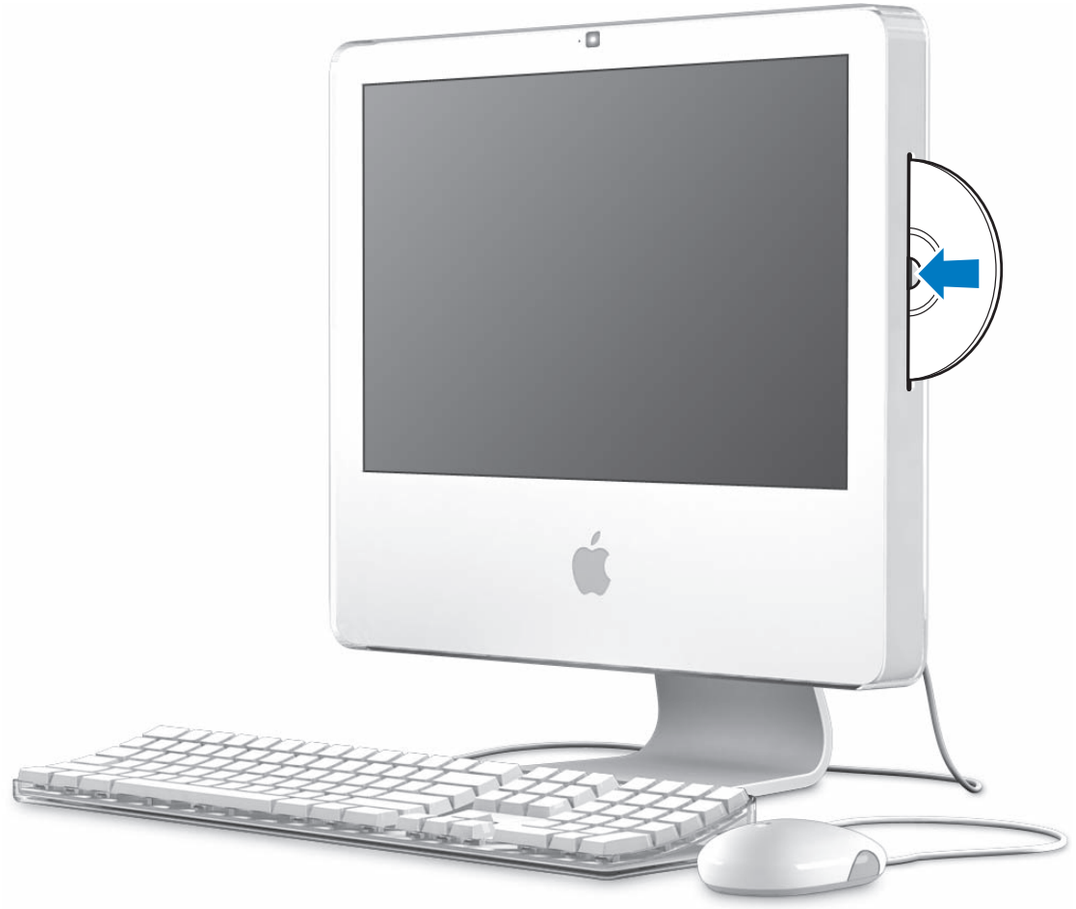
Warning: The Combo drive in your iMac supports standard circular 12 cm discs. Irregularly shaped discs or discs smaller than 12 cm are not supported. Noncircular or small discs may become lodged in the drive. If a disc becomes lodged in the drive, see the troubleshooting information on page 71.

Note: If you have data on floppy disks, use an external USB floppy disk drive to transfer the data to your iMac. You can purchase an external USB floppy disk drive from an Apple Authorized Reseller, an Apple Store retail location, or the online Apple Store at www.apple.com/store.

Inserting a CD or DVD Disc

To use a CD or DVD disc, follow these steps:

1. Place the disc into the Combo drive with the label facing you.
2. When the icon for the disc appears on the desktop, the disc is ready to use.



Ejecting a Disc

To eject a disc, do one of the following:

- Drag the disc icon to the Trash.
- Press and hold the Media Eject (⏏) key on the keyboard until the disc ejects.

If you can't eject the disc, quit any applications that may be using the disc and try again. If that doesn't work, restart your iMac while holding down the primary button on your Mighty Mouse.

Playing DVD Discs

To play a DVD, insert the DVD disc. DVD Player opens and starts playing the disc.

If your iMac is connected to a TV so that you can watch DVD playback on the TV screen, select NTSC (in the United States) or PAL (in Europe and other regions) in the Displays pane of System Preferences.

You can easily connect your iMac to your stereo system. Use an optical audio cable with a miniplug connector (available at www.apple.com/store) to connect the headphone out/optical digital audio out (🎧) port on your iMac to the optical audio input port on your stereo receiver.

Recording CD-R and CD-RW Discs

You can record music on CD-R or CD-RW discs right from your iTunes library.

To record music to a CD-R or CD-RW disc using iTunes:

1. Click the iTunes icon in the Dock.
2. Select the playlist you want to record.
3. Insert a blank disc. (For highest compatibility with CD players, use a CD-R disc.)
4. At the top of the iTunes window, click Burn CD.

To copy your files and folders onto CD-R and CD-RW discs using the Finder:

1. Insert a blank disc in the Combo drive.
2. In the dialog that appears, enter a name for the disc.
3. Drag files and folders to the disc icon that appears on the desktop.
4. Choose File > Burn Disc, or select the disc and drag it to the Burn Disc icon in the Dock.

More Information About Recording CDs

For information about how to use iTunes to record music files on a CD-R disc, open iTunes and choose Help > iTunes and Music Store Help. For instructions on using DVD Player, open DVD Player and choose Help > DVD Player Help.

Securing Your iMac

Use a locking cable and the built-in security slot to secure your iMac.

You can purchase a locking cable from an Apple Authorized Reseller, an Apple Store retail location, or the online Apple Store at www.apple.com/store.

For more information about the software security features of your iMac, including user passwords and file encryption, see Mac Help. Choose Help > Mac Help and search for "security" or "multiple users."

Installing Memory

4

This chapter provides information and instructions about installing memory in your iMac.

Your iMac comes with at least 512 MB of Double Data Rate 2 (DDR2) Synchronous Dynamic Random Access (SDRAM) memory installed. You can replace the memory in your iMac with two 512 MB or two 1 GB memory modules for a maximum of 2 GB of memory. Memory modules must be installed in pairs and meet the following specifications:

- Small Outline Dual Inline Memory Module (SO-DIMM) format
- 667 MHz, PC2-5300, DDR2 compliant (also referred to as DDR2 667)
- Unbuffered and unregistered.

Warning: Apple recommends that you have an Apple-certified technician install memory. Consult the service and support information that came with your iMac for instructions about how to contact Apple for service. If you attempt to install memory and damage your equipment, such damage isn't covered by the limited warranty on your iMac.

Replacing the Memory

Replace the memory in your iMac with two 512 MB or two 1 GB memory modules. Remember to install two equal-sized memory modules.

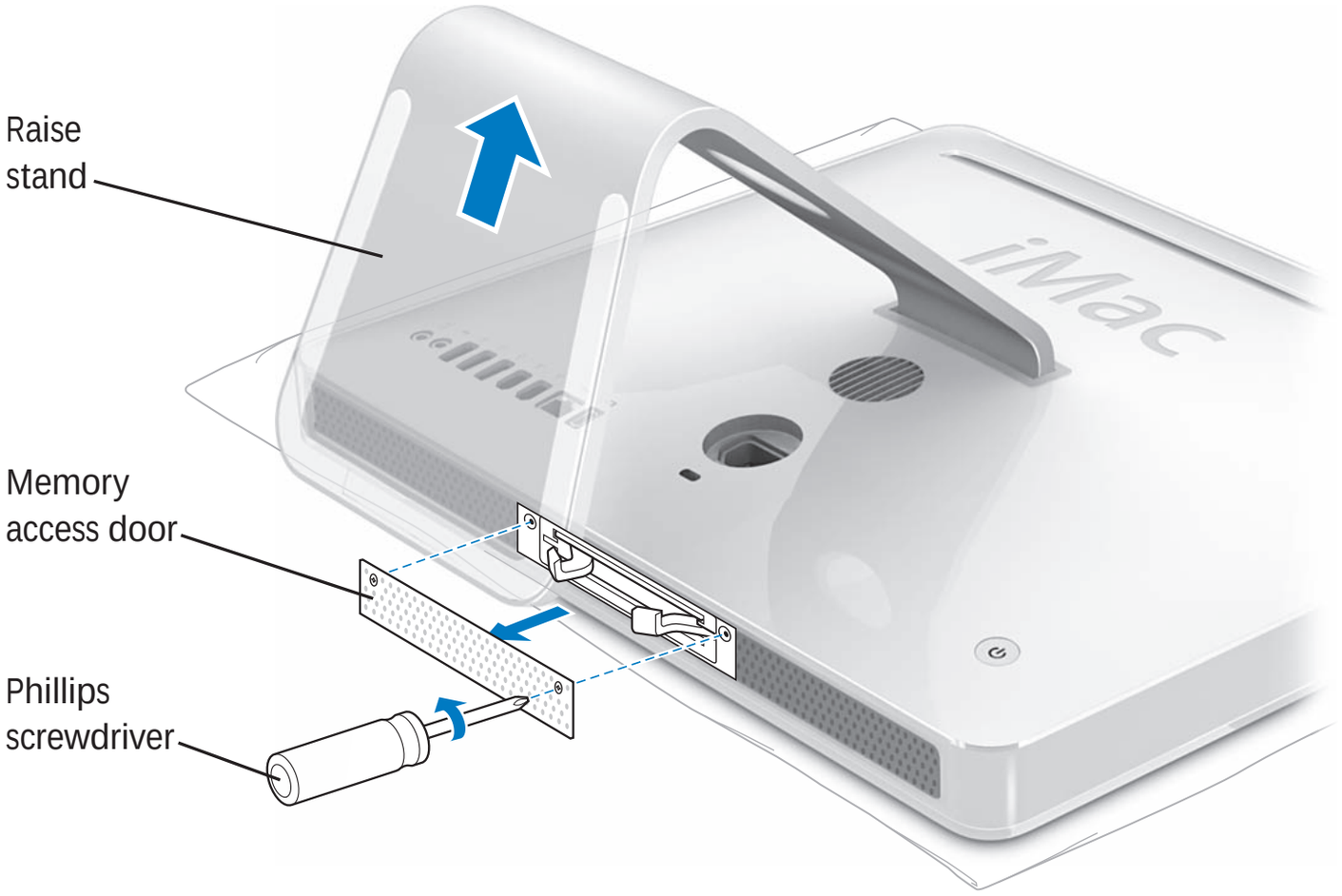
You can purchase additional Apple memory from an Apple Authorized Reseller, an Apple Store retail location, or the online Apple Store at www.apple.com/store.

Warning: Always shut down your iMac and remove the power cord before installing memory. Do not attempt to install memory in the computer while it is plugged in.

To install memory:

1. Turn your iMac off by choosing Apple (apple) > Shut Down.
2. Disconnect all cables and the power cord from your iMac.
3. Place a soft, clean towel or cloth on the desk or surface. Hold the sides of your iMac and lay it down so that the screen is against the surface and the bottom is facing you.

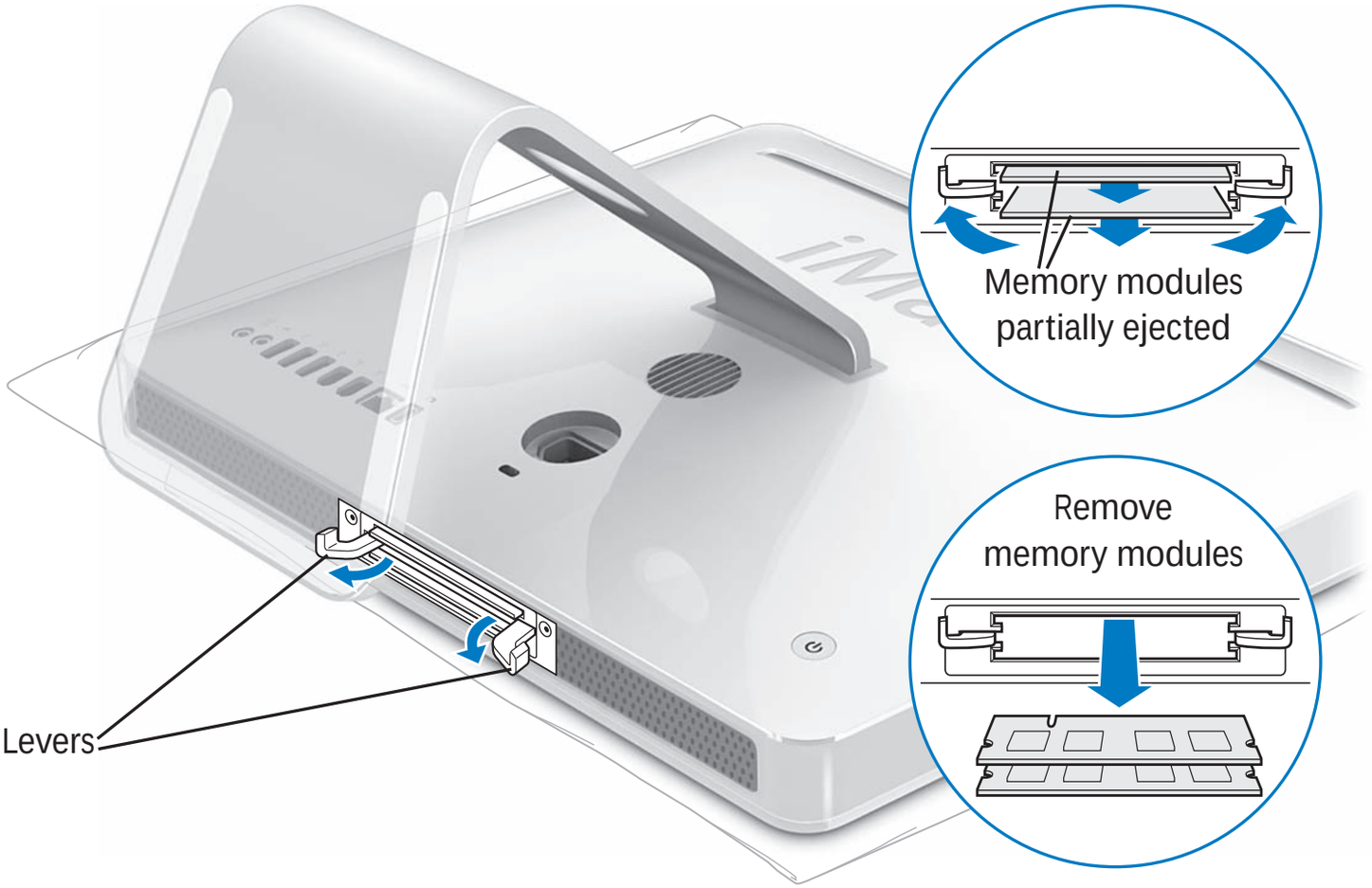
4 Raise the stand and use a Phillips #2 screwdriver to loosen the two captive screws on the memory access door by turning them counterclockwise.



5 Remove the memory access door and set it aside.

6 Pull the two levers in the memory compartment to eject the installed memory modules.

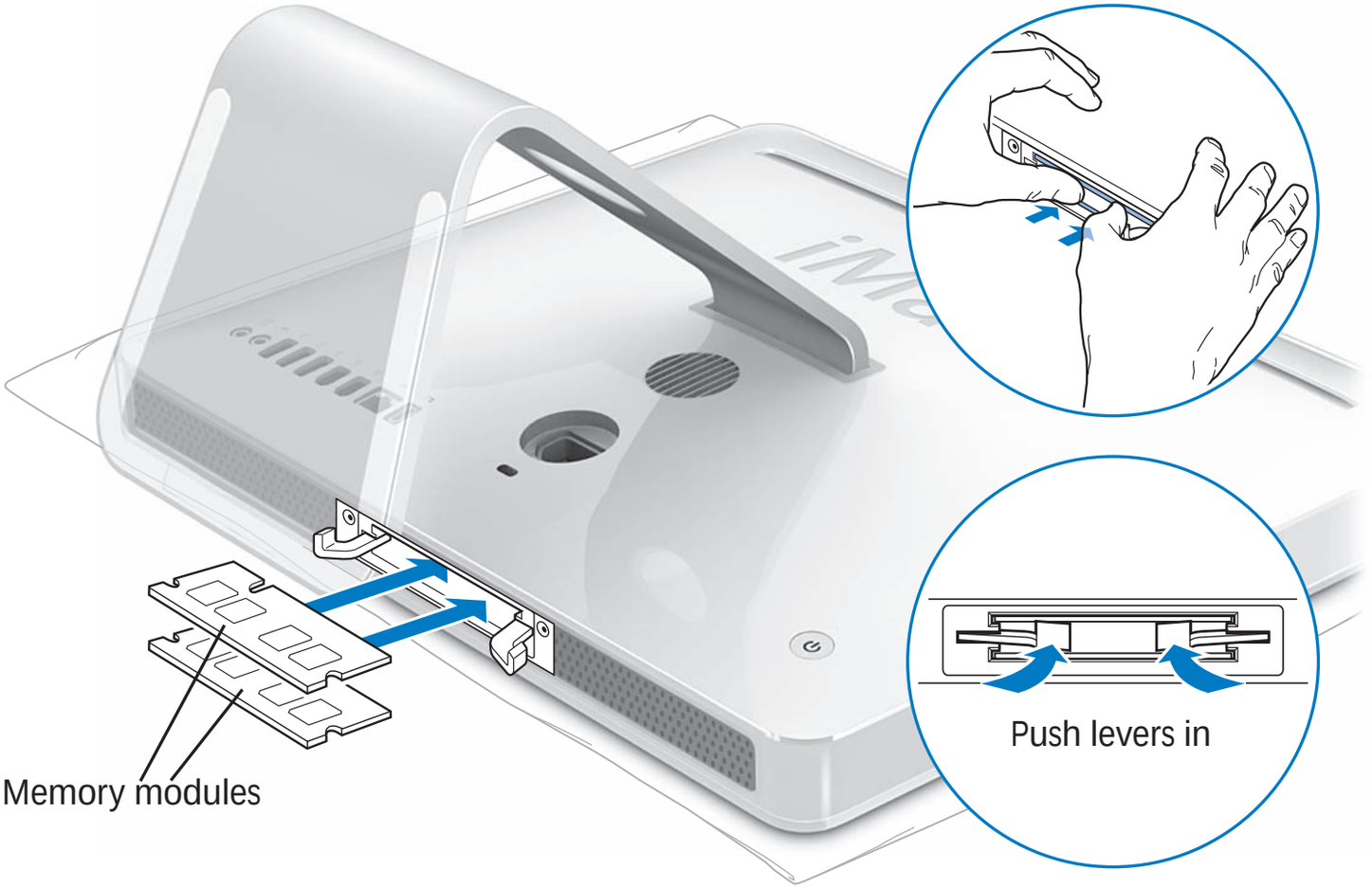
7 Remove the memory modules from your iMac.



8 Insert the new memory modules into the slots with the notch facing left as shown in the illustration.

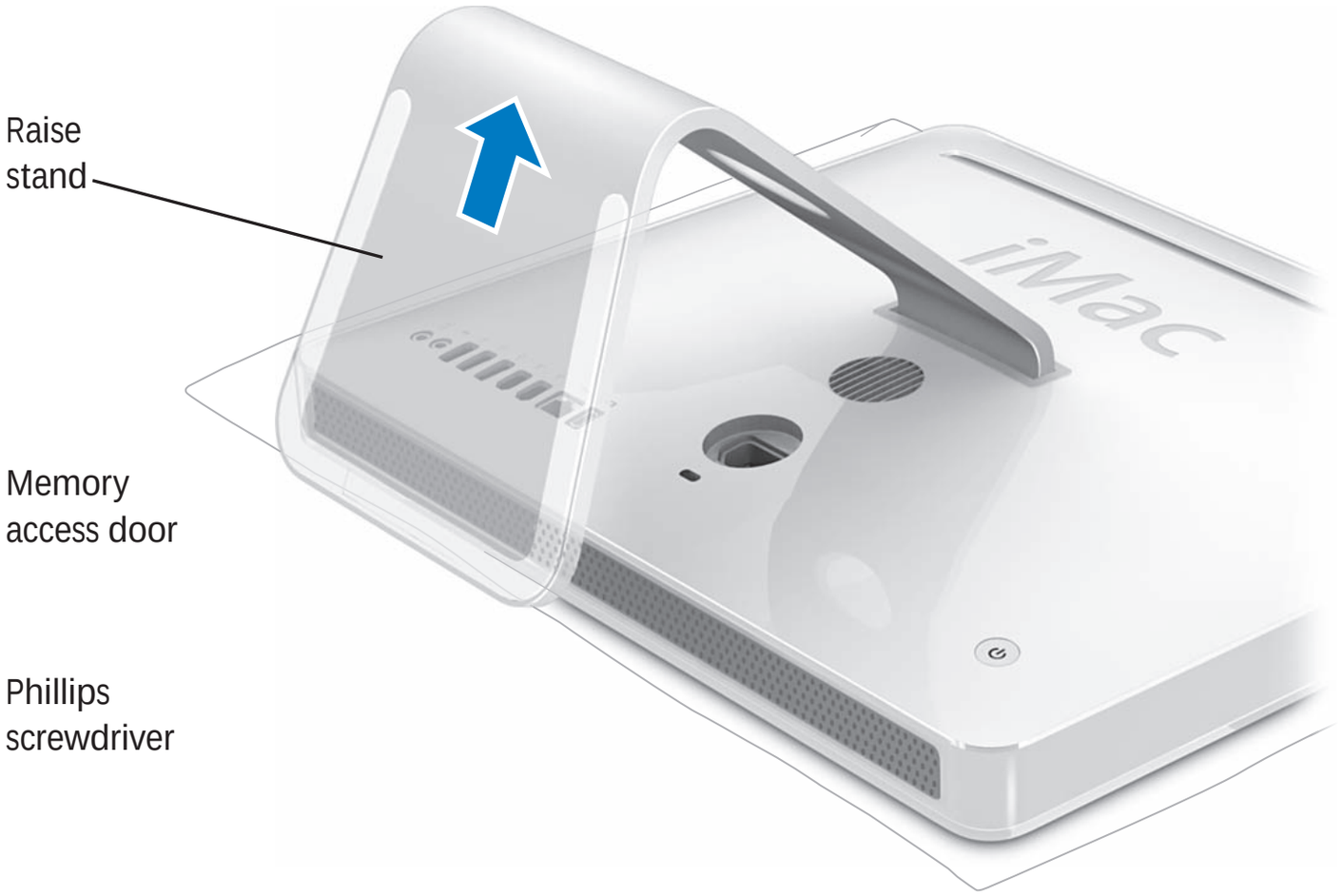
9 Press the memory modules firmly and evenly into the compartment.

10 Push the levers toward the center of the compartment until they are fully closed.



11 Replace the memory access door using a Phillips #2 screwdriver to tighten the screws.

> ***Warning:*** Remember to replace the memory access door after you install memory. Your iMac won't function properly without the memory access door.



12 Holding each side of your iMac, turn the computer right side up, and then reconnect the cables and power cord.

13 Press the power (⏻) button on the back of your iMac to turn it on.

Making Sure Your iMac Recognizes the New Memory

After installing memory, check whether the computer recognizes the new memory.

To check the memory installed in your iMac:

1. Start up your iMac.
2. When you see the Mac OS desktop, choose Apple (apple) > About This Mac.

Total memory installed in your iMac

For a detailed breakdown of the memory installed in your iMac, open System Profiler by clicking More Info and then Memory.

If your iMac doesn't recognize the memory or it doesn't start up correctly, shut it down and check the installation instructions again to make sure that the memory is compatible with your iMac and that it is installed correctly. If you still have problems, remove the memory and consult the support information that came with the memory or contact the vendor who provided the memory.

Troubleshooting

5

Occasionally you may have problems while working with your iMac. This chapter gives you some solutions to try when you have a problem.

This chapter provides solutions to problems that prevent you from working with your iMac, such as a system freeze or an iMac that won't start up. You can find more troubleshooting information in Mac Help and on the iMac Service & Support website at www.apple.com/support/imac.

If you experience a problem with your iMac, there is usually a simple and quick solution. If you encounter a problem, try to make a note of what you did before the problem occurred. This will help you narrow down the possible causes of the problem and then find the answers you need. Things to note include:

- The applications you were using when the problem occurred. Problems that occur only with a specific application may indicate that the application isn't compatible with the version of the Mac OS installed on your iMac.

- Any new hardware (such as additional memory or a peripheral) that you connected or installed.

Warning: Do not attempt to open your iMac except to install memory. If your iMac needs service, consult the service and support information that came with your computer for instructions about how to contact an Apple Authorized Service Provider or Apple for service. Your iMac doesn't have any user-serviceable parts, except the memory.

Problems That Prevent You from Using Your iMac

If your iMac won't respond or the pointer won't move

- First, make sure the mouse and keyboard are connected. Unplug and then plug in the connectors and make sure they are secure. If you have a wireless keyboard or mouse, make sure the batteries are fresh.
- If that doesn't work, try to force problem applications to quit. Hold down the Option and Command (⌘) keys and press the Esc key. If a dialog appears, select the application and click Force Quit. Then save your work in any open applications and restart your iMac to be sure the problem is entirely cleared up.
- If you are unable to force the application to quit, press and hold the power (⏻) button on the back of the iMac for a few seconds to shut down the computer.
- If that doesn't work, unplug the power cord from the iMac. Then plug the power cord back in and press the power (⏻) button on the iMac to turn it on.

If the problem occurs frequently when you use a particular application, check with the application's manufacturer to see if the application is compatible with your iMac.

To get support and contact information for the software that came with your iMac, go to www.apple.com/guide.

If the problem occurs frequently, you may need to reinstall your system software (see “Reinstalling the Software That Came with Your iMac” on page 68).

If the iMac freezes during startup or you see a flashing question mark

- Wait a few seconds. If your iMac doesn’t start up after a brief wait, shut it down by pressing and holding the power (⏻) button for about 5 seconds, until the iMac shuts down. Then hold down the Option key and press the power (⏻) button again to start up your iMac. When your iMac starts up, click the hard disk icon, then click the right arrow.
- After the iMac starts up, open System Preferences and click Startup Disk. Select a local Mac OS X System folder.
- If the problem occurs frequently, you may need to use Disk Utility (located on the Mac OS X Install Disc 1 that came with your iMac) or reinstall your system software (see “Reinstalling the Software That Came with Your iMac” on page 68).

If the iMac won’t turn on or start up

- Make sure the power cord is plugged into the iMac and into a functioning power outlet.
- If that doesn’t work, press the power (⏻) button and immediately hold down the Command (⌘), Option, P, and R keys until you hear the startup sound a second time.
- If you recently installed additional memory, make sure that it is correctly installed and that it is compatible with your iMac. Check whether removing the memory you installed allows the iMac to start up (see page 58).

- If that doesn't work, unplug the power cord and wait at least 30 seconds. Plug the power cord back in and press the power (⏻) button again to start up your iMac.
- If you are still unable to start up your iMac, see the service and support information that came with your iMac for information about contacting Apple for service.

Reinstalling the Software That Came with Your iMac

Use the software installation discs that came with your iMac to reinstall Mac OS X and the applications that came with your iMac.

Important: Apple recommends that you back up the data on your hard disk before reinstalling software. Apple isn't responsible for any lost data.

Installing Mac OS X

To install Mac OS X:

1. Back up your important files.
2. Insert the Mac OS X Install Disc 1 that came with your iMac.
3. Double-click "Install Mac OS X and Bundled Software."
4. Follow the onscreen instructions.
5. After selecting the destination disk for installation, continue following the onscreen instructions. Your iMac may restart and ask you to insert the next Mac OS X install disc.

Important: The "Erase and Install" option erases the iMac hard disk so you should back up your important files before installing Mac OS X and other applications.

Installing Applications

To install only the applications that came with your iMac, follow the steps below. Your iMac must first have Mac OS X installed.

To install applications:

1. Back up your important files.
2. Insert the Mac OS X Install Disc 1 that came with your iMac.
3. Double-click "Install Bundled Software only."
4. Follow the onscreen instructions.
5. After selecting the destination disk for installation, continue following the onscreen instructions.

Note: To install iCal, iChat, iSync, iTunes, and Safari, follow the "Installing Mac OS X" instructions above.

When an Application Doesn't Respond

On rare occasion, an application may "freeze" on the screen. Mac OS X provides a way to quit an application that's not responding, without restarting your iMac. Quitting a frozen application may allow you to save your work in other open applications.

To force an application to quit:

1. Press Command (⌘)-Option-Esc or choose Apple (🍎) > Force Quit.

   The Force Quit Applications dialog appears with the application selected.
2. Click Force Quit.

   The application quits, leaving all other applications open.

Other Problems

If you have a problem with an application

- For a problem with software from a manufacturer other than Apple, contact the manufacturer. Software manufacturers often provide updates to their software on their websites.

  You can check for and install the latest Apple software using the Software Update pane of System Preferences. Your iMac is set to check automatically once a week but you can set it to check daily or monthly. You can also check for updates manually. For more information, choose Help > Mac Help and search for "software update."

If you have trouble using AirPort wireless communication

- Make sure you have properly configured the software according to the instructions that came with your AirPort Extreme Base Station or AirPort Express.
- Make sure the computer or network you are trying to connect to is running and has a wireless access point.
- Make sure you are within antenna range of the other computer or the network's access point. Nearby electronic devices or metal structures can interfere with wireless communication and reduce this range. Repositioning or rotating the iMac may improve reception.
- Check the AirPort signal level. There are up to four bars in the AirPort status icon in the menu bar.
- You may experience network performance problems if a microwave oven, cordless telephone, or other source of interference is used near your base station. To minimize interference, move the base station away from the device.

- For more information about using and troubleshooting AirPort, choose Help > Mac Help, then choose Library > AirPort Help.

If you have a problem with your Internet connection

- Make sure your network cable is connected and functioning properly.
- If you are using a dial-up Internet connection, make sure that your telephone cord is plugged into the port on the external modem (available separately) and not the Ethernet (⇠⇢) port.
- See "Connecting to the Internet" on page 85 for information on setting up your iMac to connect to the Internet. There you will find how to locate your Internet settings and the contact information for your Internet service provider (if you used Setup Assistant to get your Internet account).
- See "Troubleshooting Your Connection" on page 90 for more information if you have a problem with your Internet connection.

If you have trouble ejecting a disc

- Quit any applications that may be using the disc, and then and press the Media Eject (⏏) key on your keyboard.
- If that doesn't work, open a Finder window and click the eject icon next to the disc icon in the sidebar, or drag the disc's icon from the desktop to the Trash.
- If that doesn't work, log out of your user account by choosing Apple menu > Log Out "User" (your account name appears in the menu), and then press the Media Eject (⏏) key on your keyboard.
- If that doesn't work, restart the iMac while holding down the mouse button.

If you have a problem using your iMac or working with the Mac OS

- If the answers to your questions are not in this manual, look in Mac Help for instructions and troubleshooting information. In the Finder, choose Help > Mac Help.
- Check the Apple Support website at www.apple.com/support for the latest troubleshooting information and software updates.

If your date and time settings get lost repeatedly

You may need to have the internal backup battery replaced. The battery in your iMac isn't user-replaceable. Contact an Apple Authorized Service Provider or an Apple Store retail location for more information.

Locating Your Product Serial Number

The serial number for your iMac is on the bottom of the stand or you can use System Profiler to find it. Choose Apple (🍎) > About This Mac from the menu bar and then click More Info. Click the Hardware disclosure triangle to view the serial number.

Using Apple Hardware Test

You can use Apple Hardware Test to help determine if there is a problem with your iMac computer's hardware.

To use Apple Hardware Test:

1. Disconnect all external devices from your iMac except the keyboard and mouse. If you have an Ethernet cable connected, disconnect it.
2. Insert the Mac OS X Install Disc 1 that came with your iMac.
3. Restart your iMac and hold down the "D" key as it starts up.
4. Select the language appropriate for your location when the Apple Hardware Test language chooser screen appears.
5. Press the Return key or click the right arrow button.
6. When the Apple Hardware Test main screen appears (after about 45 seconds), follow the onscreen instructions.
7. If Apple Hardware Test detects a problem, it displays an error code. Make a note of the error code before pursuing support options. If Apple Hardware Test doesn't detect a hardware failure, the problem may be software-related.

For more information about Apple Hardware Test, see the Apple Hardware Test Read Me file on the Mac OS X Install Disc 1.

Specifications

You can use System Profiler to find out detailed information about your iMac, such as the amount of built-in memory, hard disk size, devices connected, and the product serial number.

To access the information in System Profiler, choose Apple ( ) > About This Mac from the menu bar and then click More Info.

Safety, Use, and Care Information

For your safety and the safety of your equipment, follow the rules in this appendix for cleaning and handling your iMac, as well as the guidelines for working more comfortably.

Apple products are designed and evaluated to the latest information technology and audio video equipment safety standards. However, it's important to follow the safety instructions on the product and in the documentation.

Safety Instructions for Setting Up and Using Your iMac

For your own safety and that of your equipment, always take the following precautions. Keep these instructions handy for reference by you and others.

- Set up your computer on a stable work surface.
- Keep your computer away from sources of liquids, such as drinks, washbasins, bathtubs, shower stalls, and so on.
- Protect your computer from dampness or wet weather, such as rain, snow, and so on.
- The only way to disconnect power completely is to unplug the power cord. Always disconnect power before opening the computer to install memory.

- Disconnect the power plug (by pulling the plug, not the cord) and disconnect the phone cord if any of the following conditions exists:
  - You want to add memory
  - The power cord or plug becomes frayed or otherwise damaged
  - You spill something into the case
  - Your iMac is exposed to rain or excess moisture
  - Your iMac has been dropped or the case has been damaged
  - You suspect that your iMac needs service or repair
  - You want to clean the case (use only the recommended procedure described later)
- Your iMac contains magnets. Do not place magnetically sensitive material or devices within 1 inch (25 mm) of the computer.

Important: The only way to turn off power completely is to disconnect the power cord. Make sure at least one end of the power cord is within easy reach so that you can unplug the iMac when you need to.

Warning: Your AC cord came equipped with a three-wire grounding plug (a plug that has a third grounding pin). This plug will fit only a grounded AC outlet. If you are unable to insert the plug into an outlet because the outlet isn't grounded, contact a licensed electrician to replace the outlet with a properly grounded outlet. Do not defeat the purpose of the grounding plug.

Important: Electrical equipment may be hazardous if misused. Operation of this product, or similar products, must always be supervised by an adult. Do not allow children access to the interior of any electrical product and do not permit them to handle any cables.

Warning: Never push objects of any kind into this product through the ventilation openings in the case. Doing so may be dangerous and result in fire or a dangerous electric shock.

Do Not Make Repairs Yourself

Your iMac doesn't have any user-serviceable parts, except the memory (for information about adding memory, see Chapter 4, "Installing Memory," on page 57). Do not attempt to open your iMac. If your iMac needs service, consult the service and support information that came with your computer for instructions about how to contact an Apple Authorized Service Provider or Apple for service.

If you open your iMac or install items other than the memory, you risk damaging your equipment, and such damage isn't covered by the limited warranty on your iMac.

Connectors and Ports

Never force a connector into a port. If the connector and port don't join with reasonable ease, they probably don't match. Make sure that the connector matches the port and that you have positioned the connector correctly in relation to the port.

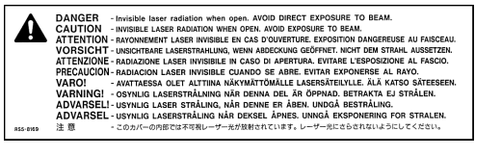
Laser Information

Warning: Making adjustments or performing procedures other than those specified in your equipment's manual may result in hazardous radiation exposure.

Do not attempt to disassemble the cabinet containing the laser. The laser beam used in this product is harmful to the eyes. The use of optical instruments, such as magnifying lenses, with this product increases the potential hazard to your eyes. For your safety, have this equipment serviced only by an Apple-authorized service provider.

Because of the optical disc drive in your computer, your computer is a Class 1 laser product. The Class 1 label, located in a user-accessible area, indicates that the drive meets minimum safety requirements. A service warning label is located in a service-accessible area. The labels on your product may differ slightly from the ones shown here.

Class 1 label


DANGER - Invisible laser radiation when open. AVOID DIRECT EXPOSURE TO BEAM.
CAUTION - INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
ATTENTION - RAYONNEMENT LASER INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
VORSICHT - UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
ATTENZIONE - RADIAZIONE LASER INVISIBILE IN CASO DI APERTURA. EVITARE L'ESPOSIZIONE AL FASCIO.
PRECAUCION - RADIACION LASER INVISIBLE CUANDO SE ABRE. EVITAR EXPONERSE AL RAYO.
VARO! - AVATTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING! - OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
ADVARSEL! - USYNLIG LASER STRÅLING, NÅR DENNE ER ÅBEN. UNDGÅ BESTRÅLING.
ADVARSEL - USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
注 意 - このカバーの内部では不可視レーザー光が放射されています。レーザー光にさらされないようにしてください。
RSS-0169

Service warning label

High-Risk Activities Warning

This computer system is not intended for use in the operation of nuclear facilities, aircraft navigation or communications systems, or air traffic control machines, or for any other uses where the failure of the computer system could lead to death, personal injury or severe environmental damage.

Avoid Hearing Damage

Warning: Permanent hearing loss may occur if earbuds or headphones are used at high volume. You can adapt over time to a higher volume of sound that may sound normal but can be damaging to your hearing. If you experience ringing in your ears or muffled speech, then stop listening and have your hearing checked. The louder the volume, the less time required before your hearing can be affected. Hearing experts suggest that to protect your hearing, you should:

- Limit the amount of time you use earbuds or headphones at high volume
- Avoid turning up the volume to block out noisy surroundings
- Turn the volume down if you can't hear people speaking to you

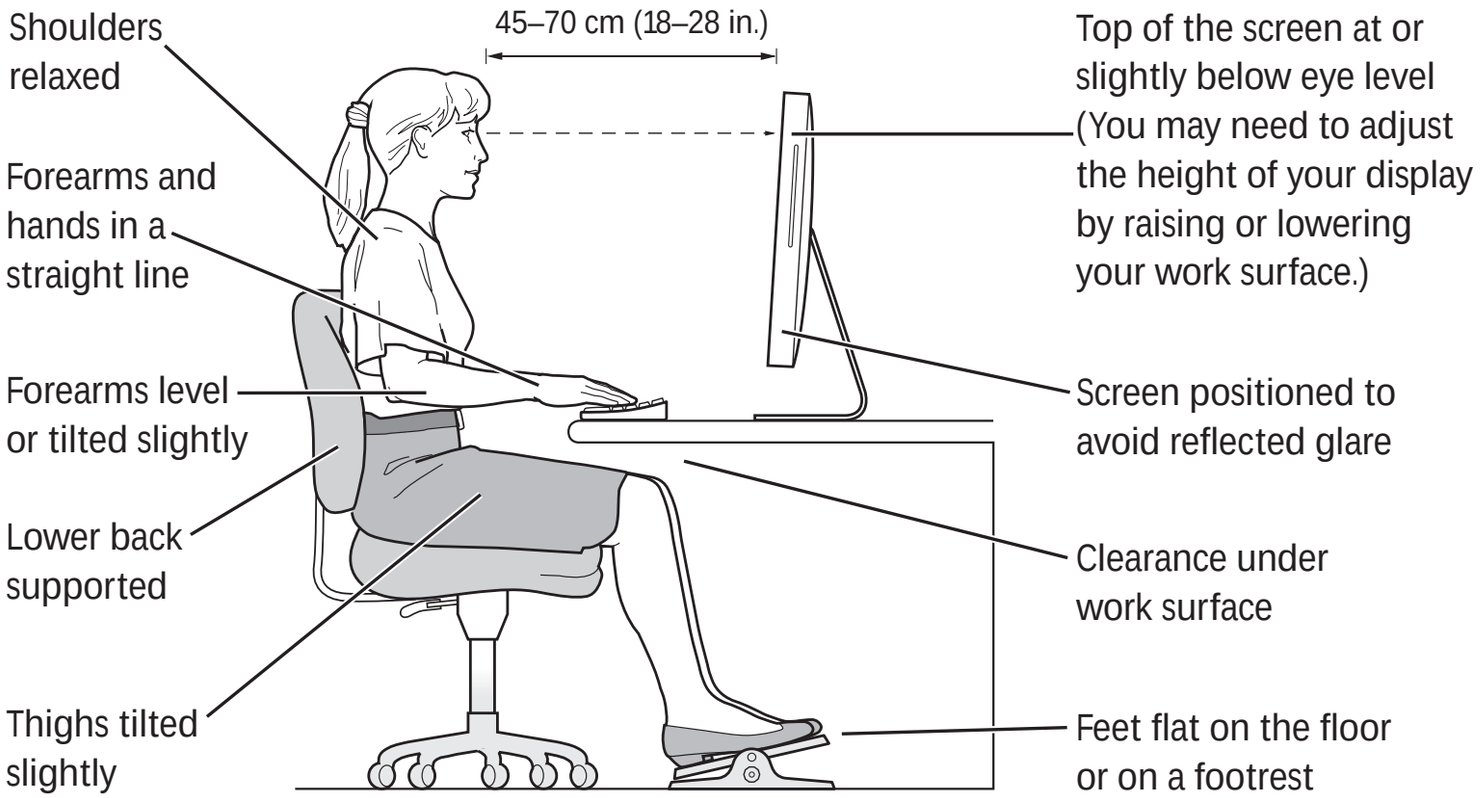
Understanding Ergonomics

Here are some tips for setting up a healthy work environment.

Chair

An adjustable chair that provides firm, comfortable support is best. Adjust the height of the chair so that your thighs are horizontal and your feet are flat on the floor. The back of the chair should support your lower back (lumbar region). Follow the manufacturer's instructions for adjusting the backrest to fit your body properly.

You may have to raise your chair so that your forearms and hands are at the proper angle to the keyboard. If this makes it impossible to rest your feet flat on the floor, you can use a footrest with adjustable height and tilt to make up for any gap between the floor and your feet. Or you may lower the desktop to eliminate the need for a footrest. Another option is to use a desk with a keyboard tray that's lower than the regular work surface.


Shoulders relaxed
45–70 cm (18–28 in.)
Top of the screen at or slightly below eye level (You may need to adjust the height of your display by raising or lowering your work surface.)
Forearms and hands in a straight line
Forearms level or tilted slightly
Screen positioned to avoid reflected glare
Lower back supported
Clearance under work surface
Thighs tilted slightly
Feet flat on the floor or on a footrest

Display

Arrange the display so that the top of the screen is slightly below your eye level when you're sitting at the keyboard. The best distance from your eyes to the screen is up to you, although most people seem to prefer 18 to 28 inches (45 to 70 cm). Position the display to minimize glare and reflections on the screen from overhead lights and windows.

Mouse

Position the mouse at the same height as your keyboard and within comfortable reach.

Keyboard

When you use the keyboard, your shoulders should be relaxed. Your upper arm and forearm should form an angle that is slightly greater than a right angle, with your wrist and hand in roughly a straight line.

Use a light touch when typing and keep your hands and fingers relaxed. Avoid rolling your thumbs under your palms.

Change hand positions often to avoid fatigue. Some computer users may develop discomfort in their hands, wrists, or arms after intensive work without breaks. If you begin to develop chronic pain or discomfort in your hands, wrists, or arms, consult a qualified health specialist.

More Information About Ergonomics

Go to www.apple.com/about/ergonomics.

Cleaning Your iMac

Follow these guidelines when cleaning the outside of your iMac and its components:

- Shut down your iMac and disconnect all cables.
- Use a damp, soft, lint-free cloth to clean the iMac computer's exterior. Avoid getting moisture in any openings. Do not spray liquid directly on the iMac.
- Don't use aerosol sprays, solvents, or abrasives.

Cleaning Your iMac Display

To clean your iMac screen, do the following:

- Shut down your iMac and disconnect all cables.
- Dampen a clean, soft, lint-free cloth with water only and wipe the screen. Do not spray liquid directly on the screen.

Carrying Your iMac

Before you lift or reposition your iMac, you may need to disconnect all cables and cords connected to it.

To lift or move your iMac, hold the sides of the computer.

Apple and the Environment

Apple Computer, Inc., recognizes its responsibility to minimize the environmental impact of its operations and products. Go to www.apple.com/environment for more information.

Connecting to the Internet

C Appendix

You can use your iMac to browse the World Wide Web, send email to friends and family, and conference in real time over the Internet. Use the information that follows to connect to the Internet.

When you first start up Mac OS X, Setup Assistant helps you enter your Internet configuration information. If you don't use Setup Assistant to configure your Internet connection, you can use Network Setup Assistant later (see "Using Network Setup Assistant to Connect" on page 89).

There are four kinds of Internet connections:

- **High-speed DSL or cable modem connection**—Your computer is connected using a special modem you get from an ISP using an Ethernet cable.
- **AirPort Extreme wireless connection**—Your computer is connected wirelessly to the Internet using an AirPort Express or AirPort Extreme Base Station or another wireless network.
- **Local area network (LAN)**—Your computer is plugged into a LAN using an Ethernet cable. This type of connection is usually used in the workplace.

- **Dial-up connection**—An external modem is plugged into a USB (♆) port on your computer and a telephone cable connects the modem to a telephone wall jack.

Before you can connect to the Internet, you need to:

1. Set up an account with an ISP. You can find an ISP in your telephone directory. Look under "Internet access," "Internet service," or "online."
2. Gather the connection information you need from your ISP or network administrator. See the next section, "Gathering the Information You Need" on page 87 to find out what information you need for each type of connection. You can write the information directly on the next few pages for reference, and then enter it in Setup Assistant.

   If another computer in the same location is already connected to the Internet, you may be able to use its settings.

To find the settings on a Mac OS X computer:

- Open the Network pane of System Preferences.
- Choose your connection method from the Show pop-up menu.
- Copy the information for your configuration.

To find the settings on a Windows PC:

The connection information on a Windows computer resides in two places.

- To find the IP address and subnet mask, open the "(ork pane o 215ln)8(t)6(ern2( )]TJ 0 Tc 0 Tw

3 If you are using an external modem, plug the modem into a USB (♆) port on your computer, and plug a phone cord into the port on the modem and into a telephone wall jack. If you are using a DSL or cable modem, follow the instructions that came with the modem to connect it to your computer.

4 Turn on your computer and enter information in Setup Assistant to configure your Internet connection.

If you already started your computer and did not use Setup Assistant to configure your Internet connection, see "Using Network Setup Assistant to Connect" on page 89.

Gathering the Information You Need

You can write the information you get from your Internet service provider (ISP), your network administrator, or your other computer on these pages, and then enter it in Network Setup Assistant.

To set up a telephone dial-up connection, gather the following information:

- Service provider name
- User or account name
- Password
- ISP telephone number
- Alternate telephone number
- Dialing prefix to obtain an outside line

To set up a DSL, cable modem, LAN, or AirPort Extreme wireless connection:
First, choose your connection method (ask your system administrator or your ISP if you don't know):

- Manually
- Using DHCP with a manual address
- Using DHCP
- Using BootP
- PPP

If you're unsure which method to use, "Using DHCP" may be a good choice, because the network supplies most of the required information for you automatically.

If you selected "Manually" or "Using DHCP with a manual address," gather the following:

- IP address
- Subnet mask*
- Router address*

*If you selected "Using DHCP with a manual address," you don't need a subnet mask or router address.

If you selected "Using DHCP," ask your ISP if you need the following optional information:

- DHCP client ID
- DNS servers

If you selected "PPP" (for PPPoE connections), gather the following:

- Service provider
- Account name
- Password
- PPPoE service name

The information below may be optional. Ask your ISP or system administrator if you need it.

- DNS servers
- Domain name
- Proxy server

Using Network Setup Assistant to Connect

If you didn't use Setup Assistant to configure your Internet settings when you first started up your iMac, you can use Network Setup Assistant at any time to configure your Internet connection or to change your settings.

To use Network Assistant:

1. Choose Apple (🍎) > System Preferences.
2. Click Network and then click "Assist me."
3. Click Assistant to open Network Assistant.
4. Follow the onscreen instructions.

More information about setting up an Internet connection is available in Mac Help. Choose Help > Mac Help and search for "connecting to the Internet."

Troubleshooting Your Connection

If you have trouble with your Internet connection, you can try the steps in this section or you can use Network Diagnostics.

To use Network Diagnostics:

1. Choose Apple (apple) > System Preferences.
2. Click Network and then click "Assist me."
3. Click Diagnostics to open Network Diagnostics.
4. Follow the onscreen instructions.

If Network Diagnostics can't resolve the problem, there may be a problem with the Internet service provider (ISP) you are trying to connect to, with an external device you are using to connect to your ISP, or with the server you are trying to access. You can also try the following steps.

Cable Modem, DSL, and LAN Internet Connections

Make sure all modem cables are firmly plugged in, including the modem power cord, the cable from the modem to the computer, and the cable from the modem to the wall jack. Check the cables and power supplies to Ethernet hubs and routers.

Turn the modem on and off and reset the modem hardware

Turn off your DSL or cable modem for a few minutes, then turn it back on. Some ISPs recommend that you unplug the modem's power cord. If your modem has a reset button, you can press it either before or after you turn the power off and on.

PPPoE Connections

If you are unable to connect to your Internet service provider using PPPoE, make sure you have the correct information entered in Network preferences.

Check System Preferences settings:

1. Choose Apple (apple) > System Preferences.
2. Click Network.
3. Choose Network Port Configurations from the Show pop-up menu.
4. Drag Built-in Ethernet to the top of the Port Configurations list.
5. Choose Built-in Ethernet from the Show pop-up menu.
6. Click PPPoE.
7. Select "Connect using PPPoE."
8. Check the Account Name field to be sure you have entered the correct information from your ISP.
9. Retype your password if you chose to save your password, to be sure it is correct.
10. Click TCP/IP. Make sure you've entered the correct information from your ISP in this pane.
11. Click Apply Now.

Network Connections

Make sure the Ethernet cable is plugged into your computer and into the network. Check the cables and power supplies to your Ethernet hubs and routers.

If you have two or more computers attempting to share an Internet connection, be sure that your network is set up properly. You need to know if your ISP provides only one IP address or if it provides multiple IP addresses, one for each computer.

If only one IP address is used, then you must have a router capable of sharing the connection, also known as network address translation (NAT) or "IP masquerading." For setup information, check the documentation provided with your router or ask the person who set up your network. You can use an AirPort Extreme Base Station to share one IP address among multiple computers. For information about using the AirPort Extreme Base Station, check Mac Help or visit the AirPort Support website at www.apple.com/support/airport.

If you cannot resolve the issue using these steps, you should contact your ISP or network administrator.

Communications Regulation Information

FCC Compliance Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. See instructions if interference to radio or television reception is suspected.

Radio and Television Interference

This computer equipment generates, uses, and can radiate radio-frequency energy. If it is not installed and used properly—that is, in strict accordance with Apple's instructions—it may cause interference with radio and television reception.

This equipment has been tested and found to comply with the limits for a Class B digital device in accordance with the specifications in Part 15 of FCC rules. These specifications are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation.

You can determine whether your computer system is causing interference by turning it off. If the interference stops, it was probably caused by the computer or one of the peripheral devices.

If your computer system does cause interference to radio or television reception, try to correct the interference by using one or more of the following measures:

- Turn the television or radio antenna until the interference stops.
- Move the computer to one side or the other of the television or radio.
- Move the computer farther away from the television or radio.
- Plug the computer into an outlet that is on a different circuit from the television or radio. (That is, make certain the computer and the television or radio are on circuits controlled by different circuit breakers or fuses.)

If necessary, consult an Apple-authorized service provider or Apple. See the service and support information that came with your Apple product. Or, consult an experienced radio/television technician for additional suggestions.

Changes or modifications to this product not authorized by Apple Computer, Inc., could void the EMC compliance and negate your authority to operate the product.

This product has demonstrated EMC compliance under conditions that included the use of compliant peripheral devices and shielded cables between system components. It is important that you use compliant peripheral devices and shielded cables (including Ethernet network cables) between system components to reduce the possibility of causing interference to radios, television sets, and other electronic devices.

Responsible party (contact for FCC matters only):
Apple Computer, Inc.
Product Compliance
1 Infinite Loop M/S 26-A
Cupertino, CA 95014-2084

Taiwan Statement

產品名稱：滑鼠

型號：A 1 1 5 2

進口商：美商蘋果電腦股份有限公司台灣分公司

Taiwan Class B Statement

Class B 設備的警告聲明
NIL

VCCI Class B Statement

情報処理装置等電波障害自主規制について

この装置は、情報処理装置等電波障害自主規制協議会 (VCCI) の基準に基づくクラス B 情報技術装置です。この装置は家庭環境で使用されることを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取扱をしてください。

Mouse Class 1 LED Information

The Apple Mighty Mouse is a Class 1 LED product in accordance with IEC 60825-1 A1 A2.

It also complies with the Canadian ICES-003 Class B Specification.

Using an External USB Modem

If you connect your iMac to a phone line using an external USB Modem, please refer to the telecommunications agency information in the guide that came with your modem.

ENERGY STAR® Compliance

As an ENERGY STAR® partner, Apple has determined that standard configurations of this product meet the ENERGY STAR guidelines for energy efficiency. The ENERGY STAR program is a partnership with office product equipment manufacturers to promote energy-efficiency. Reducing energy consumption of office products saves money and reduces pollution by eliminating wasted energy.

Disposal and Recycling Information

The backlight lamp in this product contains mercury. Dispose of it according to your local environmental laws and guidelines.

For information about Apple's recycling program, go to www.apple.com/environment.

European Union

The symbol above means that according to local laws and regulations your product should be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. Some collection points accept products for free. The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

Battery Disposal

Your iMac has an internal backup battery that preserves settings, such as the date and time, when the computer is off. Do not attempt to change the battery. Only an Apple-certified technician can change the battery.

When this product has reached the end of its useful life, please dispose of it according to your local environmental laws and guidelines.

Nederlands: Gebruikte batterijen kunnen worden ingeleverd bij de chemokar of in een speciale batterijcontainer voor klein chemisch afval (kca) worden gedeponeerd.

Deutschland: Dieses Gerät enthält Batterien. Bitte nicht in den Hausmüll werfen. Entsorgen Sie dieses Gerätes am Ende seines Lebenszyklus entsprechend der maßgeblichen gesetzlichen Regelungen.

Taiwan:

廢電池請回收

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